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(U.S.) Geological Survey, Boston, MA. Water Resources Div.

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Water resources data for the 1974 water year for Massachusetts, New Hampshire, Rhode Island, and Vermont consist of records of stage, discharge, and water quality of streams; stage, contents and water quality of lakes and reservoirs. This report contains discharge records for 225 gaging stations; stage and contents for 42 lakes and reservoirs; water quality for 25 gaging stations. Also included are 52 low-flow and 119 crest-stage partial-record stations. Additional water data were collected at various sites, not part of the systematic data collection program, and are published as miscellaneous measurements and analyses. These data represent that part of the National Water Data System operated by the U.S. Geological Survey and cooperating local, State, and Federal agencies in Massachusetts, New Hampshire, Rhode Island, and Vermont.

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Part 1. Surface Water Records

Part 2. Water Quality Records

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UNITED STATES
DEPARTMENT OF THE INTERIOR

U.S. GEOLOGICAL SURVEY WATER-DATA REPORT MANHRIVT-74-1

545

CALENDAR FOR WATER YEAR 1974

1973

OCTOBER

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1974

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SEPTEMBER

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Water Year 1974

Water Resources Data for Massachusetts New Hampshire Rhode Island Vermont

Part 1. Surface Water Records

Part 2. Water Quality Records

MARCH 3, 1849

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U.S. GEOLOGICAL SURVEY WATER-DATA REPORT MANHRIVT-74-1

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Prepared in cooperation with

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Massachusetts Metropolitan District Commission
New Hampshire Water Resources Board
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Rhode Island Department of Transportation
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Hudson River:
  Hoosic River below Williamstown, Mass. (ct) 379
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WATER RESOURCES DATA FOR MASSACHUSETTS, NEW HAMPSHIRE RHODE ISLAND, AND VERMONT, 1974

PART 1. SURFACE-WATER RECORDS
PART 2. WATER-QUALITY RECORDS

INTRODUCTION

Water-resources data for the 1974 water year for Massachusetts, New Hampshire, Rhode Island, and Vermont, including records of streamflow or reservoir storage at gaging stations, partial-record stations, and miscellaneous sites, and records of water-quality data on the chemical and physical characteristics of surface and ground water and precipitation, are given in this report. In Part 1, records are included for 231 gaging stations of which 223 are streamflow discharge stations and 6 are reservoir or lake stations; also included are records of monthend contents for 41 reservoirs and records for 52 low-flow partial-record stations, 121 crest-stage partial record stations, and 109 miscellaneous sites. In Part 2, records of chemical analyses and water temperature are given for 100 surface-water sites of which 26 are continuing-record stations, 7 are partial-record stations, and 67 are miscellaneous sites; records of suspended sediment are given for 19 partial-record stations. Records of chemical analyses also are given for 52 miscellaneous ground-water sites and 2 precipitation sites. Locations of gaging and water-quality stations are shown in Figure 1. A few pertinent stations (not included above) in bordering States and Province of Quebec are also included in this report. The records were collected and computed by the Water Resources Division of the U.S. Geological Survey under the direction of J. A. Baker, district chief, These data represent that portion of the National Water Data System collected by the U.S. Geological Survey and cooperating State and Federal agencies in Massachusetts, New Hampshire, Rhode Island, and Vermont.

Beginning with the 1961 water year, streamflow records and related data have been released by the Geological Survey in annual reports on a State- or District-boundary basis. Water-quality records beginning with the 1964 water year have been similarly released either in separate reports or in conjunction with streamflow records. These reports are for limited distribution and are designed primarily for rapid release of data shortly after the end of the water year.

Records of discharge and stage of streams, and contents and stage of lakes and reservoirs are published in a series of U.S. Geological Survey water-supply papers entitled, "Surface Water Supply of the United States." Through September 30, 1960, these water-supply papers were in an annual series and since then are in a 5-year series. Records of chemical quality, water temperatures, and suspended sediment have been published since 1941 in an annual series of water-supply papers entitled "Quality of Surface Waters of the United States." More information is given under the headings "Publications" on pages 11, 14.

COOPERATION

The U.S. Geological Survey and organizations of the States of Massachusetts, New Hampshire, Rhode Island, and Vermont have had cooperative agreements for the systematic collection of streamflow records since 1909, and for water-quality records since 1954. Organizations that assisted in collecting data through cooperative agreements with the Survey are:

Massachusetts: State Water Resources Commission, Arthur W. Brownell, chairman, C. F. Kennedy, director and chief engineer of Division of Water Resources, and T. C. McMahon, director of Division of Water Pollution Control; State Department of Public Works, Bruce Campbell, commissioner, F. W. Holden, research and materials engineer, and F. C. Schwelm, deputy chief engineer of Division of Waterways; Metropolitan District Commission, John W. Sears, commissioner, James J. Matera, director of Water Division and chief water-supply engineer, and F. T. Bergin, chief engineer of Construction Division.

New Hampshire: State Water Resources Board, G. M. McGee, chairman; State Water Supply and Pollution Control Commission, W. A. Healy, executive director.

Rhode Island: State Department of Natural Resources, Dennis J. Murphy, director, C. B. Dunwoody, chief of Division of Planning and Development; State Department of Transportation, R. J. Rahill, director, F. H. Dutra, chief of highway planning division; State Water Resources Board, A. A. DiMartino, chairman, city of Providence, Department of Public Works, L. P. McGarry, director.

Vermont: State Department of Water Resources, Gordon R. Pyper, commissioner; State Department of Highways, J. T. Gray, commissioner.

Assistance in the form of funds or services was given by the Corps of Engineers, U.S. Army, in collecting records published herein for 46 gaging stations, and by the Environmental Protection Agency, for 2 water-quality stations.

Assistance in collecting records was also furnished by New England Power Co. and Green Mountain Power Corp.

Organizations that supplied data are acknowledged in station descriptions.

On waters adjacent to the international boundary, certain gaging stations are maintained by the United States (or Canada) under agreement with Canada (or the United States), and the records are obtained and compiled in a manner equally acceptable to both countries. These stations are designated as "international gaging stations."

DEFINITION OF TERMS

Terms related to streamflow, water-quality, and other hydrologic data, as used in this report are defined below. See also table for converting English Units to International System (SI) Units on page 6.

Bacteria are microscopic unicellular organisms, typically spherical, rod-like, or spiral and threadlike in shape, often clumped into colonies. Some bacteria cause disease, others perform an essential role in nature in the recycling of materials; for example, by decomposing organic matter into a form available for reuse by plants.

Total coliform bacteria are a particular group of bacteria that are used as indicators of possible sewage pollution. They are characterized as aerobic or facultative anaerobic, gram-negative, nonspore-forming, rod-shaped bacteria which ferment lactose with gas formation within 48 hours at 35°C. In the laboratory these bacteria are defined as all the organisms which produce colonies with a golden-green metallic sheen within 24 hours when incubated at 35°C ± 1.0°C on M-Endo medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 ml of sample.

Fecal coliform bacteria are bacteria that are present in the intestine or feces of warmblooded animals. They are often used as indicators of the sanitary quality of the water. In the laboratory they are defined as all organisms which produce blue colonies within 24 hours when incubated at 44.5°C ± 0.2°C on M-FC medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 ml of sample.

Fecal streptococcal bacteria are bacteria found also in the intestine of warmblooded animals. Their presence in water is considered to verify fecal pollution. They are characterized as gram-positive, cocci bacteria which are capable of growth in brain-heart infusion broth. In the laboratory they are defined as all the organisms which produce red or pink colonies within 48 hours at 35°C ± 1.0°C on M-enterrococcus medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 ml of sample.

DEFINITION OF TERMS

Biochemical oxygen demand (BOD) is a measure of the quantity of dissolved oxygen, in milligrams per liter, used for the decomposition of organic matter by microorganisms, such as bacteria.

Cfs day is the volume of water represented by a flow of 1 cubic foot per second for 24 hours. It is equivalent to 86,400 cubic feet, about 646,000 gallons, approximately 1.9835 acre-feet, or 2,445 cubic metres. It represents a runoff of approximately 0.0372 inch from 1 square mile or 0.3468 millimetre from 1 square kilometre.

Chemical oxygen demand (COD) indicates the quantity of oxidizable compounds in water and varies with water compositions, temperature, period of contact, and other factors.

Color is expressed in units of the platinum-cobalt scale proposed by Hazen (1892, p. 427-428). A unit of color is produced by one milligram per litre of platinum in the form of the chloroplatinate ion.

The extent to which water is colored by material in solution is reported as part of the water analysis because a significant color in water may indicate the presence of organic material that may have some bearing on the dissolved solids content.

Contents is the volume of water in a reservoir or lake. Unless otherwise indicated, volume is computed on the basis of a level pool and does not include bank storage.

Continuing Record Station is a specified site which meets one or all conditions listed:

1. When chemical samples are collected daily or monthly for 10 or more months during the water year.
2. When water temperature records include observations taken once or more times daily.
3. When sediment discharge records include those periods for which sediment loads are computed and are considered to be representative of the runoff for the water year.

Control designates a feature downstream from the gage that determines the stage-discharge relation at the gage. This feature may be a natural constriction of the channel, an artificial structure, or a uniform cross section over a long reach of the channel.

Cubic feet per second per square mile (CFSM) is the average number of cubic feet of water flowing per second from each square mile of area drained, assuming that the runoff is distributed uniformly in time and area.

Cubic foot per second (ft^3/s) is the rate of discharge representing a volume of 1 cubic foot passing a given point during 1 second and is equivalent to 7.48 gallons per second or 448.8 gallons per minute or 0.2832 cubic metres per second.

Curie is a unit for measuring radioactivity. One curie equals that quantity of any radioactive isotope undergoing 3.7×10^{10} disintegration per second.

Discharge is the volume of water (or more broadly, total fluids) that passes a given point within a given period of time.

Mean discharge is the arithmetic average of individual daily mean discharges during a specific period.

Instantaneous discharge is the discharge at a given time.

Drainage area of a stream at a specified location is that area, measured in a horizontal plane and enclosed by a topographic divide, from which direct surface runoff from precipitation normally drains by gravity into the stream above the specified point. Figures of drainage area given herein include all closed basins, or noncontributing areas, within the area unless otherwise noted.

Gage height (G. H.) is the water-surface elevation referred to some arbitrary gage datum. Gage height is often used interchangeably with the general term "stage," although gage height is more appropriate when used with a reading on a gage.

Gaging-station is a particular site on a stream, canal, lake, or reservoir where systematic observations of gage height or discharge are obtained. When used in connection with a discharge record, the term is applied only to those gaging stations where a continuous record of discharge is computed.

Hardness of water is a physical-chemical characteristic that is commonly recognized by the increased quantity of soap required to produce lather. It is attributable to the presence of alkaline earths (principally calcium and magnesium) and is expressed as equivalent calcium carbonate ($CaCO_3$).

Methylene blue active substance (MBAS) is a measure of apparent detergents. This determination depends on the formation of a blue color when methylene blue dye reacts with synthetic detergent compounds.

Micrograms per litre (UG/L) is a unit expressing the concentration of chemical constituents in solution as the weight (micrograms) of solute per unit volume (litre) of water. One thousand micrograms per litre is equivalent to one milligram per litre.

Milligrams per litre (mg/l, MG/L) is a unit for expressing the concentration of chemical constituents in solution. Milligrams per litre represents the weight of solute per unit volume of water. Milligrams or micrograms per litre may be converted to milliequivalents (one thousandth of a gram-equivalent weight of a constituent) per litre by multiplying by the factors in the table below. Concentration of suspended sediment also is expressed in milligrams per litre and is based on the weight of sediment per litre of water-sediment mixture.

Table 1.--Factors for conversion of chemical constituents in milligrams or micrograms per litre to milliequivalents per litre

Ion	Multiply by	Ion	Multiply by
Aluminum (Al^{+3})*	0.11119	Iodide (I^{-1})	0.00788
Ammonia as NH_4^{+1}	.05544	Iron (Fe^{+3})*	.05372
Barium (Ba^{+2})	.01456	Lead (Pb^{+2})*	.00965
Bicarbonate (HCO_3^{-1})	.01639	Lithium (Li^{+1})*	.14411
Bromide (Br^{-1})	.01251	Magnesium (Mg^{+2})	.08226
Calcium (Ca^{+2})	.04990	Manganese (Mn^{+2})*	.03640
Carbonate (CO_3^{-2})	.03333	Nickel (Ni^{+2})*	.03406
Chloride (Cl^{-1})	.02821	Nitrate (NO_3^{-1})	.01613
Chromium (Cr^{+6})*	.11539	Nitrite (NO_2^{-1})	.02174
Cobalt (Co^{+2})*	.03394	Phosphate (PO_4^{-3})	.03159
Copper (Cu^{+2})*	.03148	Potassium (K^{+1})	.02557
Cyanide (CN^{-1})*	.03844	Sodium (Na^{+1})	.04350
Fluoride (F^{-1})	.05264	Strontium (Sr^{+2})*	.02283
Hydrogen (H^{+1})	.99209	Sulfate (SO_4^{-2})	.02082
Hydroxide (OH^{-1})	.05880	Zinc (Zn^{+2})*	.03060

* Constituent reported in micrograms per litre; multiply by factor and divide results by 1,000.

DEFINITION OF TERMS

Partial-record station is a particular site where limited streamflow or water-quality data are collected systematically over a period of years for use in hydrologic analyses.

pH is a symbol denoting the relative concentration of hydrogen ions in a solution; pH values range from 0 to 14 -- the lower the value, the more acid is the solution; i.e., the more hydrogen ions it contains.

Phytoplankton is the plant part of the plankton. They are usually microscopic and their movement is subject to the water currents. Phytoplankton growth is dependent upon solar radiation and nutrient substances. Because they are able to incorporate as well as release materials to the surrounding water, the phytoplankton have a profound effect upon the quality of the water. They are the primary food producers in the aquatic environment, and are commonly known as algae.

Picocurie (PC) is a unit for measuring radioactivity. One picocurie is equivalent to 1 trillionth of a curie. See Curie.

Runoff in inches (IN.) shows the depth to which the drainage area would be covered if all the runoff for a given time period were uniformly distributed on it.

Sediment is solid material that originates mostly from disintegrated rocks and is transported by, suspended in, or deposited from water; it includes chemical and biochemical precipitates and decomposed organic material such as humus. The quantity, characteristics, and cause of the occurrence of sediment in streams are influenced by environmental factors. Some major factors are degree of slope, length of slope, soil characteristics, land usage, and quantity and intensity of precipitation.

Suspended sediment is the sediment that at any given time is maintained in suspension by the upward components of turbulent currents or that exists in suspension as a colloid.

Suspended-sediment concentration is the velocity-weighted concentration of suspended sediment in the sampled zone (from the water surface to a point approximately 0.3 ft above the bed) expressed as milligrams of dry sediment per litre of water-sediment mixture (mg/l).

Mean concentration is the time-weighted concentration of suspended sediment passing a stream section during a 24-hour day.

Suspended-sediment discharge is the rate at which dry weight of sediment passes a section of a stream or is the quantity of sediment, as measured by dry weight or by volume, that is discharged in a given time. It is computed by multiplying discharge times mg/l times 0.0027.

Total sediment discharge or total sediment load is the sum of the suspended-sediment discharge and the bedload discharge. It is the total quantity of sediment, as measured by dry weight or volume, that is discharged during a given time.

Solute is any substance derived from the atmosphere, vegetation, soil, or rocks that is dissolved in water.

Specific conductance is a measure of the ability of a water to conduct an electrical current and is expressed in micromhos per centimetre at 25°C. Because the specific conductance is related to the number and specific chemical types of ions in solution, it can be used for approximating the dissolved-solids content in the water. Commonly, the amount of dissolved solids (in milligrams per litre) is about 65 percent of the specific conductance (in micromhos per cm at 25°C). This relation is not constant from stream to stream or from well to well, and it may even vary in the same source with changes in the composition of the water.

Stage-discharge relation is the relation between gage height and the volume of water per unit of time flowing in a channel.

Time-weighted average is computed by multiplying the number of days in the sampling period by the concentrations of individual constituents for the corresponding period and dividing the sum of the products by the total number of days. A time-weighted average represents the composition of water that would be contained in a vessel or reservoir that had received equal quantities of water from the stream each day for the water year.

Tons per day is the quantity of a substance in solution or suspension that passes a stream section during a 24-hour day.

WRD is used as an abbreviation for "Water-Resources Data" in the summary REVISIONS paragraph to refer to previously published District annual basic-data reports.

WSP is used as an abbreviation for "Water-Supply Paper" in references to previously published reports.

Table 2.--Factors for Converting English units to International System units (SI)

The following factors may be used to convert the English units published herein to the International System of Units (SI). Subsequent reports will contain both the English and SI unit equivalents in the station manuscript descriptions until such time that all data will be published in SI units.

Multiply English units	By	To obtain SI units
	Length	
inches (in)	25.4	millimetres (mm)
	.0254	metres (m)
feet (ft)	.3048	metres (m)
miles (mi)	1.609	kilometres (km)
	Area	
square miles (mi^2)	2.590	square kilometres (km^2)
	Volume	
gallons (gal)	3.785	*litres (l)
	3.785	cubic decimetres (dm^3)
	3.785×10^{-3}	cubic metres (m^3)
million gallons (10^6 gal)	3785	cubic metres (m^3)
	3.785×10^{-3}	cubic hectometres (hm^3)
cubic feet (ft^3)	28.32	cubic decimetres (dm^3)
	.02832	cubic metres (m^3)
cfs-days [(ft^3/s) · d]	2447	cubic metres (m^3)
	2.447×10^{-3}	cubic hectometres (hm^3)
	Flow	
cubic feet per second (ft^3/s)	28.32	litres per second (l/s)
	28.32	cubic decimetres per second (dm^3/s)
	.02832	cubic metres per second (m^3/s)
million gallons per day (mgd)	43.81	cubic decimetres per second (dm^3/s)
	.04381	cubic metres per second (m^3/s)
	Mass	
tons (short)	.9072	tonnes (t)

*The unit litre is accepted for use with the International System (SI). See NBS Special Bulletin 330, p. 13, 1972 edition.

SPECIAL NETWORKS AND PROGRAMS

National stream-quality accounting network is an accounting network designed by the U.S. Geological Survey to meet many of the information demands of agencies or groups involved in national or regional water-quality planning and management. Both accounting and broad-scale monitoring objectives have been incorporated in the network design. Areal configuration of the network is based on river-basin accounting units designated by the Office of Water Data Coordination in consultation with the Water Resources Council. Primary objectives of the network are (1) to depict areal variability of water-quality conditions nationwide on a year-by-year basis and (2) to detect and assess long-term changes in stream quality.

Radiochemical program is a network of regularly sampled water-quality stations where additional samples are collected twice a year (at high and low flow) to be analyzed for radioisotopes. The streams that are sampled represent major drainage basins in the conterminous United States.

Radioisotopes are isotope forms of an element that exhibit radioactivity. Isotopes are varieties of a chemical element that differ in atomic weight but are very nearly alike in chemical properties. The difference arises because the atoms of the isotopic forms of an element differ in the number of neutrons in the nucleus. For example: Ordinary chlorine is a mixture of isotopes having atomic weights 35 and 37, with the natural mixture having atomic weight about 35.453. Many of the elements similarly exist as mixtures of isotopes, and a great many new isotopes have been produced in the operation of nuclear devices such as the cyclotron (Rose, 1966). There are 275 isotopes of the 81 stable elements in addition to over 800 radioactive isotopes.

Radioisotopes that are determined in this program are natural uranium in UG/L (micrograms per litre), radium as radium-226 in PC/L (picocuries per litre), gross beta radiation as equivalent strontium/yttrium-90 (SR90/Y90) or cesium-137 (CS-137) in PC/L and gross alpha radiation as micrograms of uranium equivalent per litre. Gross alpha and beta radioactivity associated with the fine-grained (silt and clay-sized) sediments in the samples are also determined.

DOWNSTREAM ORDER AND STATION NUMBER

Stations are listed in a downstream direction along the main stream, and stations on tributaries are listed between stations on the main stream in the order in which those tributaries enter the main stream. Stations on tributaries entering above all main-stream stations are listed before the first main-stream station. Stations on tributaries to tributaries are listed in a similar manner. In the lists of gaging stations and water-quality stations in the front of this report the rank of tributaries is indicated by indention, each indention representing one rank.

As an added means of identification, each gaging station, partial-record station, and water-quality station has been assigned a station number. These are in the same downstream order used in this report. Downstream order station numbers are not assigned to wells and miscellaneous sites where only random discharge measurements are made. In assigning station numbers, no distinction is made between partial-record stations and gaging stations; therefore, the station number for a partial-record station indicates downstream-order position in a list made up of both types of stations. Water-quality stations located at or near gaging stations or partial-record stations have the same number as the gaging or partial-record station. Gaps are left in the series of numbers to allow for new stations that may be established; hence, the numbers are not consecutive. The complete 8-digit number for each station, such as 01127880, which appears just to the left of the station name includes the 2-digit part number "01" plus the 6-digit downstream order number "127880." The part number refers to an area whose boundaries coincide with certain natural drainage lines. Records in this report are in Part 1 (North Atlantic Slope basins) and Part 4 (St. Lawrence River basin). In this report the records are listed in downstream order by parts. All records for a drainage basin encompassing more than one State can be arranged in downstream order by assembling pages from the various State reports by station number to include all records in the basin.

WELL NUMBER

The well numbering system of the U.S. Geological Survey is based on the grid system of latitude and longitude. The number consists of 15 digits. The first 6 digits denote the degrees, minutes, and seconds of latitude; the next 7 digits denote the degrees, minutes, and seconds of longitude; and the last 2 digits is a sequential number for wells within a 1-second grid. The system provides the geographic location of the well and a unique number for each well.

A local well-numbering system is used in this report. All wells are numbered consecutively within each town.

EXPLANATION OF SURFACE WATER RECORDS

Collection and computation of data

The base data collected at gaging stations consists of records of stage and measurements of discharge of streams, and stage, surface area, and contents of lakes and reservoirs. In addition, observations of factors affecting the stage-discharge relation, weather records, and other information are used to supplement base data in determining the daily flow. Records of stage are obtained from a water-stage recorder that gives either a tape punched at 15-, 30-, or 60-minute intervals or a continuous graph of the fluctuations. Measurements of discharge are made with a current meter, using the general methods adopted by the Geological Survey on the basis of experience in stream gaging since 1888. These methods are described in standard textbooks, in Water-Supply Paper 888, and in U.S. Geological Survey Techniques of Water Resources Investigations, book 3, chapter A6.

For stream-gaging stations, rating tables giving the discharge for any stage are prepared from stage-discharge relation curves. If extensions to the rating curves are necessary to express discharge greater than measured, they are made on the basis of indirect measurements of peak discharge (such as slope-area or contracted-opening measurements, or computation of flow over dams or weirs), velocity-area studies, and logarithmic plotting. The daily mean discharge is computed from gage heights and rating tables; then the monthly and yearly mean discharges are computed from the daily figures. If the stage-discharge relation is subject to change because of frequent or continual change in the physical features that form the control, the daily mean discharge is computed by the shifting-control method, in which correction factors based on individual discharge measurements and notes by hydrologists and gage observers are used in applying the gage heights to the rating tables. If the stage-discharge relation for a station is temporarily changed by the presence of aquatic growth or debris on the control, the daily mean discharge is computed by what is basically the shifting-control method.

At some stream-gaging stations the stage-discharge relation is affected by backwater from reservoirs, tributary streams, or other sources. This necessitates the use of the slope method in which the slope or fall in a reach of the stream is a factor in computing discharge. The slope or fall is obtained by means of an auxiliary gage set at some distance from the base gage. At one station the stage-discharge relation is affected by changing stage; at this station the rate of change in stage is used as a factor in computing discharge.

At some stream-gaging stations the stage-discharge relation is affected by ice during the winter, and it becomes impossible to compute the discharge in the usual manner. Discharge for periods of ice effect is computed on the basis of the gage-height record and occasional winter discharge measurements, consideration being given to the available information on temperature and precipitation, notes by hydrologists and gage observers, and comparable records of discharge for other stations in the same or nearby basins.

For some lake or reservoir stations, capacity tables giving the contents for any stage are prepared from stage-area relation curves defined by surveys. The application of the stage to the capacity table gives the contents, from which the daily, monthly, or yearly change in contents is computed.

For some gaging stations there are periods when no gage-height record is obtained or the recorded gage height is so faulty that it cannot be used to compute daily discharge or contents. This happens when the recorder stops or otherwise fails to operate properly, the intakes are plugged, the float is frozen in the well, or for various other reasons. For such periods the daily discharges are estimated on the basis of recorded range in stage, adjoining good record, discharge measurements, weather records, and comparison with other station records from the same or nearby basins. Likewise, daily reservoir stages may be estimated on the basis of operator's log, adjoining good record, inflow-outflow studies, and other information.

The data in this report generally comprise a description of the station and tabulations of daily and monthly figures. For gaging stations on streams a table showing the daily discharge and monthly and yearly discharge is given. For gaging stations on lakes and reservoirs a monthly summary table of stage and contents is given. Tables of daily mean gage heights are included for some reservoir stations. Records are published for the water year, which begins on October 1 and ends on September 30. A calendar for the current water year is shown on the reverse side of the front cover to facilitate finding the day of the week for any date.

The description of the gaging station gives the location, drainage area, period of record, type and history of gages, average discharge, extremes of discharge or stage, general remarks, and notations of revisions of previously published records. The location of the gaging station and the drainage area are obtained from the most accurate maps available. River mileage, given under "LOCATION" for some stations, is that determined and used by the Corps of Engineers or other agencies. Periods for which there are published records for the present station or for stations generally equivalent to the present one are given under "PERIOD OF RECORD." The type of gage currently in use, the datum of the present gage above mean sea level, and a condensed history of the types, locations, and datums of previous gages used during the period of record are given under "GAGE." In references to datum of gage, the phrase "mean sea level" denotes "Sea Level Datum of 1929" as used by the Topographic Division of the Geological Survey, unless otherwise qualified. The average discharge for the number of years indicated is given under "AVERAGE DISCHARGE;" it is not given for stations having fewer than 5 complete years of record or for stations where changes in water development during the period of record cause the figure to have little significance. The maximum discharge, the maximum gage height, and the minimum discharge if there is little or no regulation are given under "EXTREMES." The minimum daily discharge is given if there is extensive regulation (also the minimum discharge if it is abnormally low). In the first paragraph, headed "Current year," the data given are for the complete current water year unless otherwise specified. In the second paragraph under "EXTREMES," headed "Period of record," the data given are for the period of record given in the PERIOD OF RECORD paragraph. Reliable information concerning major floods that occurred outside the period of record is given in the third or last paragraph under "EXTREMES." Unless otherwise qualified, the maximum discharge corresponds to the crest stage obtained by use of a water-stage recorder (digital or graphic), a crest-stage gage, or a nonrecording gage read at the time of the crest. If the maximum gage height did not occur at the same time as the maximum discharge, it is given separately. Information pertaining to the accuracy of the discharge records, to conditions that affect the natural flow at the gaging station, to the availability of Water Quality records, and to a recording rain gage at the gaging station is given under "REMARKS;" for reservoir stations information on the dam forming the reservoir, on the capacity, outlet works, and spillway, and on the purpose and use of the reservoir, is also given under "REMARKS."

Previously published records of some stations have been found to be in error on the basis of data or information obtained later. Revisions of such records are usually published with the current records in one of the annual or compilation reports. In order to make it easier to find such revised records, a paragraph headed "REVISIONS (WATER YEARS)" has been added to the description of all stations for which revised records have been published. Listed therein are all the reports in which revisions have been published, each followed by the water years for which figures are revised in that report. In listing water years only one number is given; for instance, 1965 stands for the water year October 1, 1964, to September 30, 1965. If no daily, monthly, or annual figures of discharge were revised, that fact is brought out by notations after the year dates as follows: "(M)" means that only the instantaneous maximum discharge was revised; "(m)" that only the instantaneous minimum was revised; and "(P)" that only peak discharges were revised. If the drainage area has been revised, the report in which the revised figure was first published is given. It should be noted that for all stations for which cubic feet per second per square mile and runoff in inches are published, a revision of the drainage area necessitates corresponding revision of all figures based on the drainage area. Revised figures of cubic feet per second per square mile and runoff in inches resulting from a revision of the drainage area only are usually not published in the annual series of reports.

The daily table for stream-gaging stations gives the mean discharge for each day and is followed by monthly and yearly summaries. In the monthly summary below the daily table, the line headed "TOTAL" gives the sum of the daily figures. The line headed "MEAN" gives the average flow in cubic feet per second during the month. The lines headed "MAX" and "MIN" give the maximum and minimum daily discharges, respectively, for the month. Discharge for the month also is usually expressed in cubic feet per second per square mile (line headed "CFSM"), and in inches (line headed "IN.").

In the yearly summary below the monthly summary, the figures following "MAX" are the maximum daily discharges for the calendar and water years; likewise, those following "MIN" are the minimum daily discharges.

Footnotes to the table of daily discharges are introduced by the word "NOTE." Footnotes are used to indicate periods for which the discharge is computed or estimated by special methods because of no gage-height record, backwater from various sources, or other unusual conditions. Periods of no gage-height record are indicated if the period is continuous for a month or more or includes a significant high period. Periods of backwater from an unusual source, of indefinite stage-discharge relation, or of any other unusual condition at the gage site are indicated only if they are a month or more in length and the accuracy of the records is affected. Days on which the stage-discharge relation is affected by ice are not indicated. The methods used in computing discharge for various unusual conditions have been explained in preceding paragraphs.

Peak discharges and their times of occurrence and corresponding gage heights for most stations are listed below the yearly summary. All independent peaks above the selected base are given. The base discharge, which is given in parentheses, is selected so that an average of about three peaks a year can be presented. Peak discharges are not published for any stream for which the peaks are subject to substantial control by man. Time of day is expressed in 24-hour local standard time; for example, 12:30 a.m. is 0030, 1:30 p.m. is 1330.

For gaging stations on lakes and reservoirs the data presented comprise a description of the station and a monthly summary table of stage and contents. For some reservoirs a table showing daily stage is given. A skeleton table of capacity at given stages is published for some reservoirs for which records are published on a daily basis.

Data collected at partial-record stations and miscellaneous sites are given in three tables at the end of the surface-water records in this report. The first is a table of discharge measurements at low-flow partial-record stations, the second is a table of annual maximum stage and discharge at crest-stage stations, and the third is a table of discharge measurements at miscellaneous sites.

Accuracy of data

The accuracy of the discharge data depends primarily on (1) the stability of the stage-discharge relation or, if the control in unstable, the frequency of discharge measurements, and (2) the accuracy of observations of stage, measurements of discharge, and interpretation of records.

The station description under "REMARKS" states the degree of accuracy of the records. "Excellent" means that about 95 percent of the daily discharges are within 5 percent of true value; "good," within 10 percent; and "fair," within 15 percent. "Poor" means that daily discharges have less than "fair" accuracy.

Figures of daily mean discharge in this report are shown to the nearest hundredth of a cubic foot per second for discharges of less than 1 cfs; to tenths between 1.0 and 10 cfs; to whole numbers between 10 and 1,000 cfs; and to 3 significant figures above 1,000 cfs. The number of significant figures used is based solely on the magnitude of the figure. The same rounding rules apply to discharge figures listed for partial-record stations and miscellaneous sites.

Discharge at many stations, as indicated by the monthly mean, may not reflect natural runoff due to the effects of diversion, consumption, regulation by storage, evaporation, or other factors. For such stations, figures of cubic feet per second per square mile and of runoff in inches are not published unless satisfactory adjustments can be made for diversions, for changes in contents of reservoirs, or for other changes incident to use and control. Evaporation from a reservoir is not included in the adjustments for changes in reservoir contents. Even at those stations where adjustments are made, large errors in computed runoff may occur if adjustments or unadjusted losses are large in comparison with the observed discharge.

Publications

In each water-supply paper entitled "Surface Water Supply of the United States" there is a list of the numbers of preceding water-supply papers containing streamflow information for the area covered by that report. In addition, there is a list of numbers of water-supply papers containing detailed information on major floods in the area. Records for stations in Massachusetts, New Hampshire, Rhode Island, and Vermont for the period October 1960 to September 1965 are in Water Supply Papers 1901, 1902, and 1912.

Two series of summary reports entitled "Compilation of Records of Surface Waters of the United States" have been published; the first series covers the entire period of record through September 1950, and the second series covers the period October 1950 to September 1960. These reports contain summaries of monthly and annual discharge and monthend storage for all previously published records, as well as some records not contained in the annual series of water-supply papers. All records were reexamined and revised where warranted. Estimates of discharge were made to fill short gaps whenever practical. The yearly summary table for each gaging station lists the numbers of the water-supply papers in which daily records were published for that station. Records for the stations in this district through September 1950 are compiled in Water-Supply Papers 1301, 1302, and 1307, and for October 1950 to September 1960, in 1721, 1722, and 1727.

Special reports on major floods or droughts or of other hydrologic studies for the area have been issued in publications other than water-supply papers. Information relative to these reports may be obtained from the district office.

Other data available

Information of a more detailed nature than that published for most gaging stations, such as discharge measurements, gage-height records, and rating tables, is on file in the district office. Also most gaging-station records are available in computer-usable form, and many statistical analyses have been made.

EXPLANATION OF WATER-QUALITY RECORDS

Water-quality data on chemical, physical, and biological characteristics of surface and ground water were collected from designated sampling sites at predetermined intervals such as once daily, weekly, monthly, or less frequently, and at some sites data were recorded on punched paper tape at 60-minute intervals.

Water samples for analyses usually are collected at or near gaging stations. The discharge records at these stations are used in conjunction with the computations of the chemical constituents and sediment loads in this report.

Descriptive statements are given for water-quality stations at which continuing records are collected. Given are location, drainage area, periods of record for the various water-quality data, extremes of pertinent data, and general remarks, in a format similar to that used for streamflow gaging stations. For ground-water stations, no descriptive statements are given; however, the well number, depth of well, date of sampling, and other pertinent data are given in the table containing the chemical analyses of ground water.

Water-quality data are presented for chemical, biological, and microbiological constituents, water temperature, and fluvial sediment. Chemical data include concentrations of individual dissolved constituents and certain properties or characteristics such as hardness, specific conductance, pH, and radioactivity. Biological data include qualitative and quantitative analyses of plankton and bottom organisms. Microbiological data include quantitative identification of certain bacteriological indicator organisms. Water-temperature data represent daily maximum, minimum, and mean temperature. Fluvial-sediment data are given for suspended-sediment discharges and concentrations.

Prior to the 1968 water year, data for chemical constituents and concentrations of suspended sediment were reported in parts per million (ppm), and water temperatures were reported in degrees Fahrenheit (°F). In October 1967 the U.S. Geological Survey began reporting data for chemical constituents and concentrations of suspended sediment in milligrams per litre (mg/l) and water temperatures in degrees Celsius (°C). In waters with a density of 1.000 g/ml (grams per millilitre), parts per million and milligrams per litre can be considered equal. In waters with a density greater than 1.000 g/ml, values in parts per million should be multiplied by the density to convert to milligrams per litre. Temperatures reported in degrees Celsius may be converted to degrees Fahrenheit by using the table below.

Table 3.--Degrees Celsius (°C) to degrees Fahrenheit (°F)
(Temperature reported to nearest 0.5°C)

°C	°F	°C	°F	°C	°F	°C	°F	°C	°F
0.0	32	10.0	50	20.0	68	30.0	86	40.0	104
.5	33	10.5	51	20.5	69	30.5	87	40.5	105
1.0	34	11.0	52	21.0	70	31.0	88	41.0	106
1.5	35	11.5	53	21.5	71	31.5	89	41.5	107
2.0	36	12.0	54	22.0	72	32.0	90	42.0	108
2.5	36	12.5	54	22.5	72	32.5	90	42.5	108
3.0	37	13.0	55	23.0	73	33.0	91	43.0	109
3.5	38	13.5	56	23.5	74	33.5	92	43.5	110
4.0	39	14.0	57	24.0	75	34.0	93	44.0	111
4.5	40	14.5	58	24.5	76	34.5	94	44.5	112
5.0	41	15.0	59	25.0	77	35.0	95	45.0	113
5.5	42	15.5	60	25.5	78	35.5	96	45.5	114
6.0	43	16.0	61	26.0	79	36.0	97	46.0	115
6.5	44	16.5	62	26.5	80	36.5	98	46.5	116
7.0	45	17.0	63	27.0	81	37.0	99	47.0	117
7.5	45	17.5	63	27.5	81	37.5	99	47.5	117
8.0	46	18.0	64	28.0	82	38.0	100	48.0	118
8.5	47	18.5	65	28.5	83	38.5	101	48.5	119
9.0	48	19.0	66	29.0	84	39.0	102	49.0	120
9.5	49	19.5	67	29.5	85	39.5	103	49.5	121

In October 1968, the Geological Survey began reporting many of the chemical constituents as well as the minor elements and some pollutants in micrograms per litre instead of milligrams per litre. (See "Definition of Terms," p. 4, and table for converting English Units to SI Units, p. 6).

Solutes

Most methods for collecting and analyzing water samples to determine the kinds and concentrations of solutes are described by Brown, Skougstad, and Fishman. The method for determining elemental constituents by emission spectrographic techniques is described by Barnett and Mallory. Analysis of pesticides, herbicides, and organic substances in water are described by Goerlitz and Lamar, Goerlitz and Brown, and Lamar, Goerlitz, and Law. The collection and analysis of aquatic, biological, and microbiological samples are described by Slack and others.

One sample can define adequately the water quality at a given time if the mixture of solutes throughout the stream cross section is homogeneous. However, the concentration of solutes at different locations in the cross section may vary widely with different rates of water discharge, depending on the source of material and the turbulence and mixing of the stream. Some streams must be sampled through several vertical sections to obtain a representative sample needed for an accurate mean concentration and for use in calculating load.

Chemical-quality data published in this report are considered to be the most representative values available for the stations listed. The values reported represent water-quality conditions at the time of sampling as much as possible, consistent with available sampling techniques and methods of analysis. In the rare case where an apparent inconsistency exists between the reported pH value and the relative abundance of carbon dioxide species (carbonate and bicarbonate), the inconsistency is the result of a slight uptake of carbon dioxide from the air by the sample between measurement of pH in the field and determination of carbonate and bicarbonate in the laboratory.

For chemical-quality stations equipped with noncontinuous digital monitors, the records consist of daily maximum, minimum, and mean values for each constituent measured and are based on hourly punches beginning at 0100 hours and ending at 2400 hours for the day of record. More detailed records (hourly values) may be obtained from the district office of the U.S. Geological Survey at the address given on the back of the title page of this report.

Ground-water quality normally does not change significantly during short periods of time; infrequent sampling and analysis of ground water adequately define ground-water quality at a given site. Water samples from wells are analyzed individually.

Temperature

Water temperatures are measured at most of the water-quality stations. In addition, water temperatures are taken at time of most discharge measurements for surface-water stations. Large streams have a small diurnal temperature change while small, shallow streams may have a daily range of several degrees and may follow closely the changes in air temperature. Some streams may be affected by waste-heat discharges.

At stations where monitors are installed, the record consists of daily maximum, minimum, and mean temperature.

Sediment

Suspended-sediment concentrations are determined periodically from samples collected by using depth-integrating samplers. Although data collected periodically may represent conditions only at the time of observation, such data are useful in establishing seasonal relations between quality and streamflow when predicting long-term sediment-discharge characteristics of the stream.

Publications

The annual series of water-supply papers that contain information on quality of surface waters in Massachusetts, New Hampshire, Rhode Island, and Vermont are listed below. Data for the North Atlantic slope basins are given in Part 1; data for the St. Lawrence River basin are given in Part 4.

Water-supply paper numbers and parts, water years 1953-71

Year	Part 1	Year	Part 1	Part 4
1953	1290	1963	1941	-
1954	1350	1964	1954	-
1955	1400	1965	1961	-
1956	1450	1966	1991	-
1957	1520	1967	2011	2012
1958	1571	1968	2091	2094
1959	1641	1969	*2141	*2144
1960	1741	1970	*2151	*2154
1961	1881	1971	*2161	*2164
1962	1941			

* In preparation.

HYDROLOGIC CONDITIONS

At the beginning of the water year, runoff was in the normal range except in northeastern Vermont, where it was excessive (in the upper quartile of record).

Cumulative runoff for October to March was excessive throughout central New England. Although water content of snow was below average throughout the winter, generally above-normal temperatures and timely precipitation during December and January produced early snowmelt which resulted in excessive runoff December through February. High rises occurred about Dec. 21-24 in parts of central and western Massachusetts, southwestern New Hampshire, and southeastern Vermont. Recurrence intervals of some peak discharges approximated 25 to 30 years. The highest December runoff for periods of record occurred at several gaging stations in Vermont, New Hampshire, and central and western Massachusetts.

In some northern areas, runoff continued excessive in March and April. However, no outstanding peak discharges occurred; only the usual lowland flooding was experienced.

Cumulative runoff for April to September was in the normal range except in northeastern and southwestern Vermont, where it was excessive. Cumulative runoff for the water year was excessive except in southern New Hampshire and central Massachusetts, where it was in the normal range. The highest water-year runoff for periods of record occurred at gaging stations in the Passumpsic River basin in northeastern Vermont.

At the end of the water year, runoff was in the excessive range throughout central New England.

Figure 1 on page 17, for which records of three, long-term index gaging stations were used, shows a comparison of the monthly and yearly mean discharge for the 1974 water year with the median discharge for the period 1941-70.

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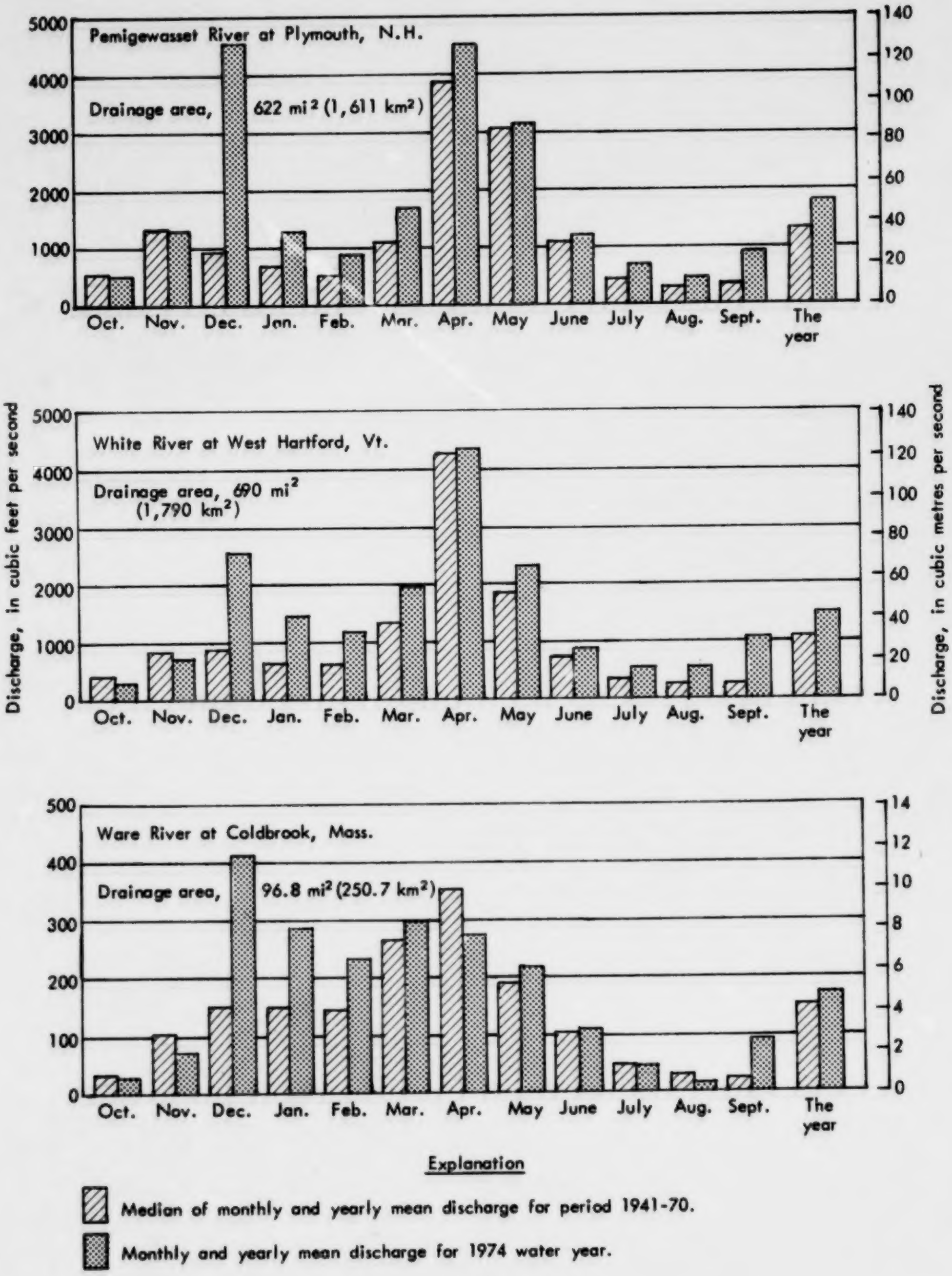

Figure 1.--Comparison of discharge at three long-term index gaging stations during 1974 water year with median discharge for period 1941-70.

PART 1. SURFACE WATER RECORDS

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NORTH ATLANTIC SLOPE BASINS

ANDROSCOGGIN RIVER BASIN

01052500 DIAMOND RIVER NEAR WENTWORTH LOCATION, N.H.

LOCATION.--Lat 44°52'40", long 71°03'25", Coos County, on left bank 1.0 mi (1.6 km) upstream from mouth and 1.6 mi (2.6 km) north of Wentworth Location.

DRAINAGE AREA.--153 mi² (396 km²).

PERIOD OF RECORD.--July 1941 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 1,275 ft (389 m) from topographic map.

AVERAGE DISCHARGE.--33 years, 347 ft³/s (9.827 m³/s), 30.80 in/yr (782 mm/yr).

EXTREMES.--Current year: Maximum discharge, 6,530 ft³/s (185 m³/s) Apr. 30 (gage height, 9.36 ft or 2.853 m); minimum, 24 ft³/s (0.68 m³/s) Aug. 17, 27.
Period of record: Maximum discharge, 8,630 ft³/s (244 m³/s) June 16, 1943 (gage height, 10.66 ft or 3.249 m), from rating curve extended above 3,900 ft³/s (110 m³/s); minimum, 6.8 ft³/s (0.19 m³/s) Aug. 27, 28, 1949, Sept. 1,1952.

REMARKS.--Records excellent except those for winter period, which are fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	150	269	420	388	215	195	190	5.270	546	343	209	45
2	139	1.020	311	318	195	145	190	3.550	529	259	134	32
3	190	744	286	279	180	171	220	1.540	423	167	92	36
4	1.050	523	323	250	170	172	500	1.880	882	343	74	209
5	1.040	360	392	235	165	250	1.580	1.370	529	1.110	74	166
6	1.620	247	1.200	225	160	450	1.610	1.010	402	570	66	83
7	761	251	894	215	155	660	1.090	988	330	346	55	55
8	493	239	466	205	170	880	700	903	278	256	48	42
9	383	227	381	195	160	680	495	774	242	302	44	35
10	321	200	644	190	145	500	410	1.030	231	1.600	41	32
11	281	193	568	190	135	390	373	1.740	276	797	37	37
12	252	192	369	185	126	300	344	1.260	254	439	33	34
13	229	190	227	180	121	250	331	2.600	192	309	31	30
14	240	242	457	180	120	225	345	2.160	161	237	28	29
15	242	586	1.210	175	115	210	1.180	1.630	146	197	27	31
16	222	1.370	591	170	102	205	1.290	1.570	134	174	26	27
17	214	856	372	170	95	400	866	1.090	366	146	25	27
18	199	510	352	165	94	1.000	957	925	629	128	123	32
19	183	371	285	165	92	500	981	702	381	160	80	40
20	176	336	288	160	89	370	898	555	250	318	53	34
21	194	278	1.830	160	89	340	1.010	476	212	189	43	44
22	179	292	3.510	260	90	310	2.110	465	179	139	33	178
23	165	305	1.500	300	168	295	4.870	2.370	156	124	28	111
24	155	349	707	280	450	280	4.690	3.450	131	121	27	68
25	147	545	481	240	600	330	2.030	1.950	119	98	31	51
26	142	554	737	210	420	300	1.220	1.490	167	90	30	53
27	136	377	1.310	320	300	260	1.010	1.050	387	85	26	61
28	128	424	1.060	500	230	240	1.750	780	244	98	77	52
29	123	818	692	370	------	220	4.380	635	160	222	52	96
30	150	587	551	290	------	210	5.650	562	141	136	76	473
31	207	------	431	240	------	200	------	518	------	109	68	------
TOTAL	10.111	13.486	22.915	7.410	5.151	10.978	43.272	46.363	9.117	9.610	1.791	2.243
MEAN	326	450	739	239	184	354	1.442	1.496	304	310	57.8	74.8
MAX	1.620	1.370	3.510	500	600	1.000	5.650	5.270	882	1.600	209	473
MIN	123	190	227	160	89	171	190	465	119	85	25	27
CFSM	2.13	2.94	4.83	1.56	1.20	2.31	9.42	9.78	1.99	2.03	.38	.49
IN.	2.46	3.28	5.57	1.80	1.25	2.67	10.52	11.27	2.22	2.34	.44	.55

CAL YR 1973 TOTAL 196.145 MEAN 537 MAX 3.860 MIN 49 CFSM 3.51 IN 47.69
WTR YR 1974 TOTAL 182.447 MEAN 500 MAX 5.650 MIN 25 CFSM 3.27 IN 44.36

PEAK DISCHARGE (BASE, 3,600 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-22	-	-	4,800				
4-24	0300	8.92	5,760				
4-30	0100	9.36	6,530				
5-24	0700	7.75	4,080				

01053500 ANDROSCOGGIN RIVER AT ERROL, N.H.

LOCATION.--Lat 44°46'57", long 71°07'46", Coos County, on right bank 0.4 mi (0.6 km) downstream from Errol Dam, 0.4 mi (0.6 km) northeast of Errol, and 0.6 mi (1.0 km) upstream from Clear Stream.

DRAINAGE AREA.--1,045 mi^2 (2,707 km^2).

PERIOD OF RECORD.--January 1905 to current year. October 1922 to November 1943, monthly discharge only, published in WSP 1301. Prior to 1922, published as "at Errol Dam."

GAGE.--Water-stage recorder. Datum of gage is 1,227.30 ft (374.081 m) above mean sea level. Prior to Dec. 8, 1943, nonrecording gage at Errol Dam at datum 5.0 ft (1.52 m) higher.

AVERAGE DISCHARGE.--69 years, 1,898 ft^3/s (53.75 m^3/s), 24.67 in/yr (627 mm/yr), adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 11,700 ft^3/s (331 m^3/s) May 5 (gage height, 7.97 ft or 2.429 m); minimum daily, 1,010 ft^3/s (28.6 m^3/s) July 5.

Period of record: Maximum daily discharge, 16,100 ft^3/s (456 m^3/s) May 22, 1969; minimum daily, leakage only at various times when gates in dam were closed.

Instantaneous maximum discharge not available prior to Dec. 9, 1943.

REMARKS.--Records excellent. Flow regulated by Rangeley, Mooselookmeguntic, Richardson, Aziscohos, and Umbagog Lakes (combined usable capacity, 28,100,000,000 ft^3 or 796,000,000 m^3), with final regulation at Errol Dam.

COOPERATION.--Records prior to Dec. 9, 1943, furnished by Union Water Power Co.

REVISIONS.--WSP 1001: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.900	1.380	1.930	7.830	1.900	2.100	2.080	6.790	5.480	1.410	2.080	1.930
2	1.960	1.030	2.050	6.760	1.980	2.080	2.110	8.760	1.700	1.370	2.100	2.000
3	1.840	1.150	2.120	6.260	2.010	2.080	2.080	10.100	1.370	1.530	2.100	1.890
4	1.340	1.320	2.150	5.560	2.060	2.080	1.620	11.100	1.390	1.380	2.100	1.480
5	1.210	1.650	2.030	4.830	2.110	1.860	1.010	11.300	1.430	1.010	2.080	1.590
6	1.130	1.790	1.810	4.160	2.160	1.730	1.960	11.000	1.490	1.280	2.100	1.770
7	1.480	1.790	1.390	4.000	2.190	1.840	2.680	10.400	1.570	1.840	2.140	1.900
8	1.640	1.720	1.750	3.840	2.190	2.020	2.320	9.630	1.580	2.460	2.140	1.900
9	1.710	1.750	1.930	3.520	2.190	1.970	1.730	8.970	1.590	2.570	2.150	1.990
10	1.800	1.790	1.650	2.990	2.240	2.010	1.680	7.470	1.630	4.280	2.160	2.050
11	1.850	1.790	1.540	2.880	2.320	2.050	1.610	7.850	1.670	5.360	2.180	2.060
12	1.860	1.840	1.990	2.710	2.310	2.010	1.610	5.830	1.730	5.230	2.180	2.030
13	1.920	1.850	2.190	2.630	2.250	2.160	1.510	6.880	1.790	4.130	2.150	2.020
14	1.900	1.920	2.680	2.640	2.250	2.200	1.510	8.760	1.840	2.700	2.120	2.030
15	1.890	1.800	4.230	2.630	2.340	2.140	1.580	9.670	1.800	2.310	2.110	2.050
16	1.840	1.550	5.140	1.980	2.290	2.030	2.170	10.000	1.760	2.050	2.180	2.030
17	1.790	1.840	5.650	1.720	2.240	2.010	2.620	9.670	1.580	2.050	2.140	2.080
18	1.810	1.710	5.970	1.760	2.230	1.970	2.600	9.100	2.900	2.050	2.030	2.060
19	1.850	1.640	5.600	1.610	2.250	1.980	2.630	7.040	4.750	1.920	2.050	2.050
20	1.840	1.840	5.650	2.180	2.310	1.960	2.630	5.320	3.520	1.820	2.070	1.990
21	1.820	1.920	6.680	2.480	2.290	2.000	2.630	3.820	2.780	1.960	2.100	1.840
22	1.840	1.960	7.530	2.520	2.280	1.880	2.840	3.410	2.280	2.050	2.150	1.680
23	1.900	2.010	8.150	2.480	2.250	1.940	3.780	6.380	2.120	2.080	2.150	1.810
24	1.940	2.070	8.000	1.610	2.240	2.020	5.180	9.010	2.200	2.100	2.180	1.920
25	1.930	1.620	7.880	1.380	2.180	2.010	5.740	9.870	2.240	2.100	2.190	1.970
26	1.900	1.710	8.090	1.660	2.110	2.010	5.280	9.950	2.110	2.110	2.200	1.970
27	1.900	1.770	8.150	2.230	2.100	2.030	4.700	9.250	1.960	2.150	2.160	1.970
28	1.960	1.630	8.210	2.380	2.100	2.070	4.320	7.380	1.940	2.100	1.980	1.920
29	1.930	1.570	8.230	1.820	-------	2.110	4.580	5.670	2.100	1.980	1.890	1.730
30	1.440	1.660	8.020	1.820	-------	2.120	5.550	6.420	1.930	2.060	1.810	1.590
31	1.160	-------	8.000	1.800	-------	2.110	-------	7.160	-------	2.080	1.880	-------
TOTAL	54.280	51.070	146.390	94.670	61.370	62.580	84.340	253.960	64.230	71.520	65.050	57.300
MEAN	1.751	1.702	4.722	3.054	2.192	2.019	2.811	8.192	2.141	2.307	2.098	1.910
MAX	1.960	2.070	8.230	7.830	2.340	2.200	5.740	11.300	5.480	5.360	2.200	2.080
MIN	1.130	1.030	1.390	1.380	1.900	1.730	1.010	3.410	1.370	1.010	1.810	1.480
MEAN†	1.910	2.190	4.679	1.282	691	1.929	7.931	8.490	2.197	1.844	262	506
CFSM†	1.83	2.10	4.48	1.23	.66	1.85	7.59	8.12	2.10	1.76	.25	.48
IN.†	2.11	2.34	5.16	1.42	.69	2.13	8.47	9.36	2.34	2.03	.29	.54

CAL YR 1973 TOTAL 908.169 MEAN 2.488 MAX 10.200 MIN 979 MEAN† 2.751 CFSM† 2.63 IN† 35.72
WTR YR 1974 TOTAL 1.066.760 MEAN 2.923 MAX 11.300 MIN 1.010 MEAN† 2.841 CFSM† 2.72 IN† 36.88

† Adjusted for change in contents in Rangeley, Mooselookmeguntic, Richardson, Aziscohos, and Umbagog Lakes.

01054000 ANDROSCOGGIN RIVER NEAR GORHAM, N.H.

LOCATION.--Lat 44°26'10", long 71°11'27", Coos County, on right bank at Pulsifer Rips, 2.2 mi (3.5 km) downstream from Dead River and 4.0 mi (6.4 km) upstream from Gorham.

DRAINAGE AREA.--1,363 mi² (3,530 km²).

PERIOD OF RECORD.--October 1913 to current year. October 1922 to February 1929, monthly discharge only, published in WSP 1301. Prior to October 1928, published as "at Berlin."

GAGE.--Water-stage recorder. Datum of gage is 832.88 ft (253.862 m) above mean sea level. Prior to Sept. 30, 1922, nonrecording gage showing head and tailwater elevations at site 3 mi (5 km) upstream at different datum.

AVERAGE DISCHARGE.--61 years, 2,465 ft³/s (69.81 m³/s), 24.56 in/yr (624 mm/yr), adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 15,100 ft³/s (428 m³/s) Dec. 22 (gage height, 8.76 ft or 2.670 m); minimum daily, 1,860 ft³/s (52.7 m³/s) Jan. 20.
Period of record: Maximum daily discharge, 20,000 ft³/s (566 m³/s) June 18, 1917, Apr. 30, 1923; minimum daily, 795 ft³/s (22.5 m³/s) Mar. 15, 1948.

REMARKS.--Records excellent. Flow regulated by Rangeley, Mooselookmeguntic, Richardson, Aziscohos, and Umbagog Lakes (combined usable capacity, 28,100,000,000 ft³ or 796,000,000 m³), with final regulation at Errol Dam 35 mi (56 km) upstream. Diurnal fluctuation caused by powerplant 0.8 mi (1.3 km) upstream.

REVISIONS.--WSP 1001: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.010	2.400	2.410	8.450	2.490	2.390	2.560	11.000	8.000	2.500	2.220	2.090
2	2.040	2.790	2.500	8.050	2.350	2.400	2.540	12.000	4.650	2.110	2.200	2.060
3	2.100	2.180	2.530	6.890	2.470	2.380	2.660	11.300	2.490	1.890	2.180	2.190
4	2.180	2.060	2.600	6.620	2.420	2.430	3.100	12.600	2.180	2.110	2.220	2.470
5	2.030	2.080	2.640	5.680	2.370	2.800	3.570	13.400	2.180	2.550	2.230	2.160
6	2.300	2.180	2.770	4.890	2.380	2.990	4.460	12.400	2.090	2.090	2.190	2.020
7	2.100	2.180	2.680	4.470	2.460	3.340	4.580	11.900	2.090	2.180	2.200	2.010
8	2.080	2.130	2.020	4.130	2.420	3.790	4.530	11.100	2.090	2.540	2.260	2.050
9	2.060	2.070	2.540	3.720	2.410	3.420	3.330	10.200	2.070	2.990	2.260	2.030
10	2.060	2.080	2.990	3.640	2.400	3.000	2.790	9.520	2.050	4.880	2.250	2.140
11	2.120	2.100	2.620	3.350	2.490	2.800	2.600	9.750	2.070	5.960	2.260	2.150
12	2.130	2.100	2.450	3.050	2.530	2.610	2.460	8.720	2.040	6.020	2.240	2.160
13	2.130	2.130	2.670	2.740	2.480	2.390	2.420	9.080	2.050	5.560	2.250	2.120
14	2.180	2.140	3.240	2.840	2.430	2.740	2.470	9.970	2.110	3.670	2.220	2.130
15	2.150	2.340	5.810	3.010	2.440	2.670	3.890	10.600	2.140	3.000	2.170	2.110
16	2.170	2.770	6.010	2.790	2.480	2.510	4.510	11.000	2.070	2.400	2.190	2.110
17	2.070	3.130	6.230	1.950	2.470	3.250	4.410	10.900	2.260	2.260	2.300	2.090
18	2.050	2.870	7.050	1.940	2.380	3.710	4.850	10.400	2.680	2.250	2.360	2.160
19	2.060	2.240	6.470	2.030	2.370	3.170	5.030	9.460	4.800	2.290	2.230	2.120
20	2.110	2.210	6.220	1.860	2.480	2.910	4.750	7.280	4.520	2.160	2.180	2.130
21	2.090	2.260	8.520	2.560	2.480	2.680	4.690	5.440	3.420	2.080	2.190	2.190
22	2.090	2.340	13.300	2.880	2.500	2.660	5.650	4.190	2.820	2.180	2.190	2.290
23	2.090	2.340	10.200	2.920	2.590	2.450	8.580	5.810	2.380	2.240	2.210	2.120
24	2.190	2.440	9.380	2.870	2.590	2.560	11.300	10.500	2.320	2.280	2.200	2.080
25	2.100	2.540	8.730	2.000	2.610	2.550	9.430	11.800	2.390	2.200	2.230	2.090
26	2.140	2.320	8.860	1.930	2.510	2.520	8.290	12.400	2.520	2.240	2.230	2.150
27	2.120	2.370	9.680	2.510	2.420	2.560	7.060	11.600	2.500	2.250	2.250	2.140
28	2.090	2.330	9.990	3.560	2.390	2.550	6.860	10.200	2.330	2.280	2.460	2.120
29	2.140	2.470	9.410	3.230	------	2.530	7.880	8.040	2.230	2.200	2.300	2.200
30	2.460	2.420	8.990	2.670	------	2.570	9.440	6.570	2.280	2.180	2.240	2.340
31	2.520	------	8.640	2.400	------	2.590	------	7.820	------	2.230	2.110	------
TOTAL	66.160	70.010	180.150	111.630	68.810	85.920	150.690	306.950	81.820	85.770	69.220	64.220
MEAN	2.134	2.334	5.811	3.601	2.458	2.772	5.023	9.902	2.727	2.767	2.233	2.141
MAX	2.520	3.130	13.300	8.450	2.610	3.790	11.300	13.400	8.000	6.020	2.460	2.470
MIN	2.010	2.060	2.020	1.860	2.350	2.380	2.420	4.190	2.040	1.890	2.110	2.010
MEAN†	2.293	2.822	5.768	1.829	957	2.682	10.140	10.200	2.783	2.304	397	737
CFSM†	1.68	2.07	4.23	1.34	.70	1.97	7.44	7.48	2.04	1.69	.29	.54
IN.†	1.94	2.31	4.88	1.54	.73	2.27	8.30	8.62	2.28	1.95	.34	.60

CAL YR 1973 TOTAL 1.203.700 MEAN 3.298 MAX 13.300 MIN 1.860 MEAN† 3.561 CFSM† 2.61 IN† 35.45
WTR YR 1974 TOTAL 1.341.350 MEAN 3.675 MAX 13.400 MIN 1.860 MEAN† 3.593 CFSM† 2.64 IN† 35.76

† Adjusted for change in contents in Rangeley, Mooselookmeguntic, Richardson, Aziscohos, and Umbagog Lakes.

01064300 ELLIS RIVER NEAR JACKSON, N.H.

LOCATION.--Lat 44°13'12", long 71°15'00", Carroll County, in White Mountain National Forest, on right bank 0.4 mi (0.6 km) upstream from small left-bank tributary, 1.3 mi (2.1 km) upstream from bridge on State Highway 16, and 6 mi (10 km) northwest of Jackson.

DRAINAGE AREA.--10.9 mi² (28.2 km²).

PERIOD OF RECORD.--December 1963 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 1,500 ft (457 m) from topographic map. Prior to Oct. 14, 1969, at site 0.3 mi (0.5 km) downstream at different datum.

AVERAGE DISCHARGE.--10 years, 34.6 ft³/s (0.980 m³/s), 43.11 in/yr (1,090 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,580 ft³/s (44.7 m³/s) Dec. 21 (gage height, 5.46 ft or 1.664 m), from rating curve extended above 310 ft³/s (8.78 m³/s) on basis of slope-area measurement at gage height 8.99 ft (2.740 m); minimum discharge not determined, occurred during period of ice effect; minimum daily, 4.0 ft³/s (0.11 m³/s) Feb. 22.

Period of record: Maximum discharge, 4,500 ft³/s (127 m³/s) Nov. 3, 1966 (gage height, 10.34 ft or 3.152 m from recorder, affected by drawdown, 18.9 ft or 5.76 m from floodmarks, site and datum then in use), from rating curve extended above 390 ft³/s (11.0 m³/s) on basis of slope-area measurement at gage height 10.34 ft (3.152 m); minimum, 3.7 ft³/s (0.10 m³/s) Mar. 27, 1965.

REMARKS.--Records good except those for winter period and periods of no gage-height record, which are fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
	9.2	127	22	30	11	7.0	10	470	111	19	17	13
	9.2	125	22	27	9.5	6.4	10	81	44	34	15	12
3	12	52	27	25	8.4	6.0	15	56	53	30	14	24
4	15	35	22	23	7.6	23	105	86	48	44	20	61
5	20	26	43	21	6.8	156	317	52	49	73	23	33
6	18	23	123	20	6.0	47	111	42	48	59	16	22
7	16	19	42	18	5.6	59	47	40	40	42	14	19
8	15	17	35	17	5.4	50	41	38	36	37	14	16
9	14	15	85	16	5.1	25	32	38	39	43	13	15
10	13	14	127	15	4.9	21	32	64	42	77	13	15
11	12	14	51	15	4.6	18	25	73	40	46	11	17
12	12	13	31	14	4.5	16	24	85	35	39	11	15
13	11	13	48	13	4.5	13	22	305	30	33	10	15
14	11	15	133	13	4.4	12	46	84	29	29	10	14
15	11	22	88	12	4.3	11	160	162	28	32	9.8	13
16	11	70	51	12	4.3	10	61	102	40	29	9.2	12
17	11	40	180	11	4.2	300	43	102	470	26	15	12
18	11	23	200	11	4.2	50	58	79	160	24	20	13
19	10	20	90	10	4.1	25	53	57	71	19	11	12
20	10	19	65	10	4.1	18	42	46	58	34	10	12
21	10	18	860	10	4.1	16	47	41	50	27	9.5	20
22	10	19	255	20	4.0	15	150	41	43	25	9.2	24
23	10	20	120	22	73	14	280	203	38	25	8.9	17
24	10	17	90	37	25	13	800	107	36	23	10	15
25	9.8	29	80	14	11	12	500	94	37	21	9.5	15
26	9.5	23	110	13	9.8	12	350	83	52	19	8.9	16
27	9.2	19	70	36	8.6	11	270	69	64	19	8.9	14
28	8.3	37	55	29	7.6	11	240	56	46	20	9.2	14
29	8.3	48	41	19	-------	11	310	51	40	20	15	39
30	133	28	36	16	-------	10	250	49	39	28	44	49
31	50	-------	33	15	-------	10	-------	47	-------	24	19	-------
TOTAL	519.5	960	3.235	564	256.6	1.008.4	4.455	2.906	1.941	1.062	428.1	592
MEAN	16.8	32.0	104	18.2	9.16	32.5	149	93.7	64.7	34.3	13.8	19.7
MAX	133	127	860	37	73	300	800	470	470	77	44	61
MIN	8.3	13	22	10	4.0	6.0	10	36	28	19	8.9	12
CFSM	1.54	2.94	9.54	1.67	.84	2.98	13.7	8.60	5.94	3.15	1.27	1.81
IN.	1.77	3.28	11.04	1.92	.88	3.44	15.20	9.92	6.62	3.62	1.46	2.02

CAL YR 1973 TOTAL 18.845.9 MEAN 51.6 MAX 1.160 MIN 8.3 CFSM 4.73 IN 64.32
WTR YR 1974 TOTAL 17.927.4 MEAN 49.1 MAX 860 MIN 4.0 CFSM 4.50 IN 61.18

NOTE.--No gage-height record Mar. 9-14, Apr. 23-30.

PEAK DISCHARGE (BASE, 400 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10-30	1445	3.44	526	4-5	1745	3.30	470
11-1	1900	3.35	490	4-24	-	-	*1,500
12-9	2200	3.20	430	5-1	-	-	*1,000
12-17	2130	3.63	602	5-13	0145	4.12	810
12-21	1530	5.46	1,580	5-23	1545	3.22	438
3-17	-	-	*450	6-17	1215	4.03	765

* About.

01064400 LUCY BROOK NEAR NORTH CONWAY, N.H.

LOCATION.--Lat 44°04'10", long 71°10'30", Carroll County, on left bank 1.6 mi (2.6 km) upstream from mouth, and 2.5 mi (4.0 km) northwest of North Conway.

DRAINAGE AREA.--4.68 mi² (12.12 km²).

PERIOD OF RECORD.--June 1964 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 710 ft (216 m) from topographic map.

AVERAGE DISCHARGE.--10 years, 10.8 ft³/s (0.306 m³/s), 31.34 in/yr (796 mm/yr).

EXTREMES.--Current year: Maximum discharge, 952 ft³/s (27.0 m³/s) Dec. 21 (gage height, 8.09 ft or 2.466 m); minimum, 0.99 ft³/s (0.028 m³/s) Aug. 28, 29.

Period of record: Maximum discharge, 992 ft³/s (28.1 m³/s) Nov. 3, 1966, Apr. 25, 1968, June 30, 1973 (gage height, 9.20 ft or 2.804 m, from floodmarks), from rating curve extended above 50 ft³/s (1.42 m³/s) on basis of slope-area measurement of peak flow; maximum recorded gage height, 8.14 ft (2.481 m) Nov. 3, 1966 (affected by drawdown); minimum discharge, 0.32 ft³/s (0.009 m³/s) Sept. 2, 3, 29, 30, 1968.

REMARKS.--Records good except those for winter period, which are fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.3	23	6.7	12	7.0	3.9	7.4	42	14	7.6	1.8	2.1
2	1.3	20	7.5	10	6.4	3.9	7.4	24	12	6.4	1.7	1.7
3	1.6	11	7.0	8.9	6.0	3.9	8.5	18	9.8	4.8	1.5	4.1
4	2.6	8.1	6.7	8.6	5.8	4.6	20	19	9.1	16	7.9	31
5	6.1	6.7	9.1	7.9	5.4	42	99	15	8.2	26	11	12
6	4.8	5.9	43	7.2	5.2	19	50	13	7.6	19	3.2	6.1
7	3.2	5.2	17	6.6	5.0	29	24	18	6.9	12	2.3	4.4
8	2.8	4.4	17	6.0	4.8	25	26	16	6.1	9.1	1.8	3.5
9	2.6	4.6	16	5.6	4.6	12	20	15	5.6	7.6	1.7	3.2
10	2.3	4.2	42	5.4	4.4	9.4	15	36	5.2	6.4	1.7	2.8
11	2.1	4.0	23	5.2	4.3	8.0	13	38	4.8	5.6	1.5	2.6
12	1.9	3.8	15	5.0	4.1	7.2	13	26	4.1	4.8	1.4	2.1
13	1.9	3.8	12	4.8	3.8	6.6	13	89	3.5	4.1	1.4	2.1
14	1.9	3.9	36	4.8	3.7	6.2	17	36	3.2	3.9	1.3	1.8
15	1.9	4.5	52	4.6	3.6	5.8	69	25	2.8	3.5	1.3	1.7
16	1.9	17	24	4.6	3.5	5.6	40	20	4.8	3.5	1.2	1.7
17	1.9	11	91	4.4	3.4	96	32	17	29	2.8	1.5	1.5
18	1.5	8.0	70	4.3	3.3	36	43	15	42	2.6	2.3	1.5
19	1.5	6.9	25	4.2	3.2	18	35	13	17	2.8	1.5	1.5
20	1.5	5.9	22	4.1	3.2	14	25	12	13	3.2	1.4	1.7
21	1.5	5.3	471	4.2	3.2	13	28	11	9.8	2.6	1.2	3.2
22	1.5	5.2	95	18	6.6	12	58	9.8	8.2	2.3	1.1	3.9
23	1.5	5.0	39	6.3	23	11	56	27	6.9	2.3	1.1	2.1
24	1.5	4.9	20	5.6	8.4	10	86	30	6.1	2.1	1.1	2.1
25	1.5	7.9	18	5.2	5.1	10	36	29	5.6	1.8	1.1	1.8
26	1.5	6.8	19	4.9	4.6	9.0	27	24	7.6	1.8	1.1	1.8
27	1.5	6.0	32	9.2	4.3	8.3	22	22	15	1.8	1.1	1.8
28	1.3	12	27	14	4.2	8.0	27	17	11	2.3	1.1	1.8
29	1.3	18	20	10	------	7.6	34	15	8.2	2.6	4.1	5.2
30	89	11	15	8.1	------	7.4	29	15	9.8	2.3	3.5	9.8
31	24	------	13	7.5	------	7.4	------	13	------	2.6	2.6	------
TOTAL	172.7	244.5	1,311.0	217.2	150.1	459.8	980.3	719.8	296.9	176.2	68.5	122.6
MEAN	5.57	8.15	42.3	7.01	5.36	14.8	32.7	23.2	9.90	5.68	2.21	4.09
MAX	89	23	471	18	23	96	99	89	42	26	11	31
MIN	1.3	3.8	6.7	4.1	3.2	3.9	7.4	9.8	2.8	1.8	1.1	1.5
CFSM	1.19	1.74	9.04	1.50	1.15	3.16	6.99	4.96	2.12	1.21	.47	.87
IN.	1.37	1.94	10.42	1.73	1.19	3.65	7.79	5.72	2.36	1.40	.54	.97

CAL YR 1973 TOTAL 7,800.30 MEAN 21.4 MAX 471 MIN .90 CFSM 4.57 IN 62.00
WTR YR 1974 TOTAL 4,919.60 MEAN 13.5 MAX 471 MIN 1.1 CFSM 2.88 IN 39.10

PEAK DISCHARGE (BASE, 190 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10-30	1330	7.32	472				
12-17	1845	6.68	233				
12-21	1600	8.09	952				
3-17	0930	6.90	303				
5-13	0215	6.56	199				

01064500 SACO RIVER NEAR CONWAY, N.H.

LOCATION.--Lat 43°59'27", long 71°05'29", Carroll County, on left bank at Odell Falls, 1.8 mi (2.9 km) downstream from Swift River and Conway.

DRAINAGE AREA.--386 mi² (1,000 km²).

PERIOD OF RECORD.--August 1903 to December 1909, January 1910 to June 1912 (gage heights only), February 1929 to current year. Monthly discharge only for some periods, published in WSP 1301. Prior to 1912, published as "at Center Conway."

GAGE.--Water-stage recorder. Datum of gage is 418.19 ft (127.464 m) above mean sea level. Aug. 26, 1903, to June 30, 1912, nonrecording gage at site 0.8 mi (1.3 km) downstream at different datum.

AVERAGE DISCHARGE.--51 years (1903-9, 1929-74), 923 ft³/s (26.14 m³/s), 32.47 in/yr (825 mm/yr).

EXTREMES.--Current year: Maximum discharge, 26,900 ft³/s (762 m³/s) Dec. 21 (gage height, 13.06 ft or 3.981 m); minimum, 161 ft³/s (4.56 m³/s) Jan. 8.

Period of record: Maximum discharge, 43,900 ft³/s (1,240 m³/s) Mar. 27, 1953 (gage height, 17.20 ft or 5.243 m), from rating curve extended above 23,000 ft³/s (651 m³/s) on basis of slope-area measurement of peak flow; minimum, 40 ft³/s (1.13 m³/s) Mar. 16, 1932.

REMARKS.--Records excellent except those for winter period, which are fair.

REVISIONS (WATER YEARS).--WSP 756: Drainage area. WSP 1301: 1908-9.

DISCHARGE. IN CUBIC FEET PER SECOND. WATER YEAR OCTOHER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	236	1.880	929	465	660	482	720	5.210	1.610	817	403	369
2	223	3.250	791	375	590	488	736	3.610	1.610	720	331	317
3	237	1.710	738	330	520	470	770	2.360	1.300	648	301	341
4	379	1.260	736	307	470	485	1.620	2.420	1.170	626	307	1.400
5	477	995	796	283	450	1.210	4.830	2.100	1.070	1.180	850	1.090
6	912	856	3.300	264	400	2.040	5.490	1.780	980	1.300	525	645
7	535	752	1.920	242	370	1.670	2.570	1.770	907	914	384	495
8	406	698	1.330	189	340	2.670	2.300	1.770	834	764	329	421
9	356	650	1.180	177	320	1.450	1.880	1.630	781	724	299	369
10	326	580	3.640	179	300	1.160	1.600	1.940	739	844	286	334
11	317	527	2.280	179	290	925	1.400	3.110	697	753	272	316
12	300	512	1.640	179	280	740	1.370	2.300	665	610	256	309
13	283	503	1.290	177	270	620	1.370	6.330	618	541	244	301
14	275	497	2.880	175	265	560	1.370	3.740	587	489	232	303
15	270	500	5.500	175	260	520	4.200	3.000	543	497	219	279
16	269	1.530	2.690	170	260	510	3.740	2.870	549	515	211	259
17	275	1.420	3.900	170	260	4.490	2.670	2.260	3.490	456	218	245
18	268	914	7.780	170	260	3.170	3.110	2.090	4.120	411	540	237
19	253	758	3.200	170	260	1.720	3.290	1.690	1.850	397	385	233
20	257	674	2.580	170	270	1.340	2.650	1.460	1.310	507	289	244
21	259	622	13.100	170	280	1.060	2.520	1.310	1.190	439	252	290
22	286	629	9.900	600	320	1.040	3.850	1.210	999	386	230	582
23	246	614	2.270	1.040	770	1.060	6.350	2.290	862	364	217	471
24	242	594	1.250	979	978	1.020	7.360	3.480	759	368	220	355
25	240	776	865	796	689	1.040	3.850	2.680	765	353	238	312
26	240	900	977	636	601	864	3.000	2.480	847	327	226	305
27	241	729	1.610	808	584	845	2.430	2.330	1.310	308	206	300
28	234	935	1.230	1.620	491	760	2.580	1.910	1.050	308	203	286
29	249	1.460	866	1.060	------	657	4.020	1.660	853	425	276	490
30	2.910	1.140	665	857	------	725	4.520	1.580	943	406	630	1.080
31	3.930	------	517	773	------	700	------	1.430	------	460	525	------
TOTAL	15.931	28.865	82.350	13.885	11.808	36.491	88.166	75.800	35.008	17.857	10.104	12.978
MEAN	514	962	2.656	448	422	1.177	2.939	2.445	1.167	576	326	433
MAX	3.930	3.250	13.100	1.620	978	4.490	7.360	6.330	4.120	1.300	850	1.400
MIN	223	497	517	170	260	470	720	1.210	543	308	203	233
CFSM	1.33	2.49	6.88	1.16	1.09	3.05	7.61	6.33	3.02	1.49	.84	1.12
IN.	1.54	2.78	7.94	1.34	1.14	3.52	8.50	7.31	3.37	1.72	.97	1.25

CAL YR 1973 TOTAL 595.256 MEAN 1.631 MAX 18.900 MIN 214 CFSM 4.23 IN 57.37
WTR YR 1974 TOTAL 429.243 MEAN 1.176 MAX 13.100 MIN 170 CFSM 3.05 IN 41.37

PEAK DISCHARGE (BASE, 8,700 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10-30	2200	8.52	10,400	12-21	2300	13.06	26,900
12-14	2400	7.98	8,700	4-24	0900	8.36	9,830
12-18	0300	8.90	11,500	5-13	1000	8.31	9,680

01065000 OSSIPEE RIVER AT EFFINGHAM FALLS, N.H.

LOCATION.--Lat 43°47'44", long 71°03'36", Carroll County, on left bank 0.3 mi (0.5 km) upstream from bridge on State Highway 153 at Effingham Falls, 0.3 mi (0.5 km) downstream from outlet of Ossipee Lake, and 4 mi (6 km) northwest of Effingham.

DRAINAGE AREA.--330 mi² (855 km²).

PERIOD OF RECORD.--September 1942 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 390 ft (119 m) from topographic map.

AVERAGE DISCHARGE.--32 years, 690 ft³/s (19.54 m³/s), 28.39 in/yr (721 mm/yr).

EXTREMES.--Current year: Maximum discharge, 4,080 ft³/s (116 m³/s) Dec. 23 (gage height, 8.42 ft or 2.566 m, from peak-stage indicator); minimum, 195 ft³/s (5.52 m³/s) Oct. 12; minimum daily, 196 ft³/s (5.55 m³/s) Oct. 17-19, 21-23.
Period of record: Maximum discharge, 11,700 ft³/s (331 m³/s) Mar. 28, 1953 (gage height, 11.64 ft or 3.548 m); minimum, about 5 ft³/s (0.14 m³/s) during part of several days Nov. 4-20, 1968 (caused by unusual regulation); minimum daily, 11 ft³/s (0.31 m³/s) Oct. 10, 1944.

REMARKS.--Records excellent except those for periods of no gage-height record which are fair. Flow regulated by Ossipee and Silver Lakes and Pine River Pond (combined capacity, 1,430,000,000 ft³ or 40,500,000 m³).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	477	257	1.080	2.000	1.120	716	797	1.010	976	427	206	200
2	467	395	1.040	1.700	1.040	727	782	854	971	418	206	200
3	456	534	1.010	1.400	985	705	785	1.120	688	415	206	240
4	450	541	981	1.270	930	694	828	1.260	498	411	208	462
5	398	655	925	1.210	872	692	1.000	1.230	451	429	212	756
6	370	766	921	1.130	811	738	1.470	1.110	421	459	209	747
7	370	675	962	1.070	774	834	1.840	1.130	425	473	208	734
8	367	516	981	1.010	737	1.010	1.900	1.180	429	539	208	724
9	364	463	976	925	704	1.140	1.880	1.150	431	570	206	580
10	362	411	1.100	868	671	1.170	1.800	1.060	427	616	206	485
11	356	407	1.220	753	647	1.110	1.670	1.050	425	632	206	479
12	264	314	1.250	673	632	1.040	1.550	1.120	421	556	204	474
13	198	214	1.200	657	602	975	1.470	1.360	416	507	204	345
14	198	216	1.400	643	583	905	1.440	1.600	345	503	203	253
15	198	216	1.600	643	560	852	1.600	1.640	296	496	202	253
16	198	223	2.500	643	538	817	2.000	1.590	301	328	202	251
17	196	229	2.700	631	523	906	2.160	1.810	705	200	201	250
18	196	238	3.300	604	510	1.170	2.150	2.220	1.040	200	201	249
19	196	242	3.100	600	494	1.350	2.080	1.870	1.050	200	201	248
20	198	253	2.900	589	499	1.360	1.970	1.480	1.020	200	200	248
21	196	262	2.800	585	590	1.300	1.830	1.240	877	200	200	249
22	196	269	3.400	619	642	1.240	1.710	946	779	200	200	254
23	196	312	3.900	663	672	1.150	1.510	829	762	201	200	255
24	198	337	3.500	720	697	1.100	1.520	897	480	202	200	254
25	198	345	3.000	753	721	1.070	1.650	985	276	202	198	251
26	198	491	2.700	757	725	1.020	1.680	1.050	274	202	198	249
27	200	574	2.800	786	705	988	1.610	1.110	277	202	198	368
28	200	635	2.900	930	680	932	1.520	1.240	358	203	197	455
29	202	894	2.700	1.120	------	882	1.350	1.270	414	204	198	452
30	208	1,080	2.500	1.140	------	838	1.250	1.220	421	204	199	515
31	231	------	2.300	1.140	------	812	------	1.060	------	206	200	------
TOTAL	8.502	12,964	63.646	28.232	19.664	30.243	46.802	38.691	16.654	10.805	6.287	11.480
MEAN	274	432	2.053	911	702	976	1.560	1.248	555	349	203	383
MAX	477	1,080	3.900	2.000	1.120	1.360	2.160	2.220	1.050	632	212	756
MIN	196	214	921	585	494	692	782	829	274	200	197	200

CAL YR 1973 TOTAL 382.712 MEAN 1.049 MAX 5.150 MIN 165
WTR YR 1974 TOTAL 293.970 MEAN 805 MAX 3.900 MIN 196

NOTE.--No gage-height record Dec. 13 to Jan. 3.

PISCATAQUA RIVER BASIN

01072100 SALMON FALLS RIVER AT MILTON, N.H.

LOCATION.--Lat 43°24'50", long 70°59'15", Strafford County, on right bank just downstream from Milton Pond, at Milton.

DRAINAGE AREA.--108 mi² (280 km²).

PERIOD OF RECORD.--October 1968 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 405 ft (123 m) from topographic map.

AVERAGE DISCHARGE.--6 years, 215 ft³/s (6.089 m³/s).

EXTREMES.--Current year: Maximum discharge, 1,160 ft³/s (32.9 m³/s) Dec. 18 (gage height, 4.99 ft or 1.521 m); minimum daily, 34 ft³/s (0.96 m³/s) Aug. 18-23, Sept. 8-12.
Period of record: Maximum discharge, 1,730 ft³/s (49.0 m³/s) Feb. 12, 1970 (gage height, 5.49 ft or 1.673 m); minimum daily, 19 ft³/s (0.54 m³/s) Aug. 30, Sept. 13, 1970.

REMARKS.--Records good. Flow regulated by Great East and Lovell Lakes and Horn, Wilson, and Milton (also controls Northeast and Town House) Ponds, combined usable capacity, 1,280,000,000 ft³ (36,250,000 m³). See table below for figures of monthend contents.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	114	200	137	596	448	247	230	210	178	70	46	36
2	113	243	133	537	447	234	250	275	185	68	46	36
3	111	264	124	483	403	221	265	290	149	66	46	35
4	114	249	117	443	358	215	344	311	110	68	46	35
5	117	224	108	399	317	214	449	312	110	76	46	35
6	117	201	121	358	282	251	673	247	112	78	46	35
7	115	183	140	343	259	283	673	287	109	77	46	35
8	110	165	150	317	233	304	620	249	108	76	46	34
9	124	149	155	282	214	312	570	223	108	71	46	34
10	146	134	211	263	205	307	504	244	108	67	46	34
11	148	126	280	260	194	242	456	331	106	62	46	34
12	154	117	244	245	188	257	431	432	94	57	41	34
13	145	110	294	238	182	224	428	702	65	54	35	36
14	135	104	308	224	180	209	428	706	65	51	35	37
15	126	102	514	220	172	161	471	644	65	50	35	39
16	117	46	635	219	165	113	544	470	65	50	35	53
17	109	45	743	215	159	255	558	366	65	50	35	81
18	142	43	1.070	204	150	552	526	353	87	49	34	81
19	157	132	1.050	197	147	600	289	319	106	50	34	81
20	135	159	858	195	151	535	141	200	118	50	34	81
21	125	140	641	185	194	474	171	119	135	47	34	81
22	142	125	850	204	185	422	188	122	136	44	34	81
23	147	113	845	236	283	374	206	124	114	45	34	83
24	127	104	744	278	359	343	174	138	98	45	35	86
25	143	103	862	303	368	330	159	176	86	45	36	86
26	150	113	573	305	351	319	213	217	86	45	35	86
27	127	124	535	308	311	295	242	247	85	46	35	86
28	111	121	607	364	271	276	244	258	81	46	35	86
29	99	132	708	457	------	255	244	200	77	46	51	88
30	112	136	709	515	------	237	198	162	74	46	66	117
31	160	------	656	519	------	227	------	169	------	46	36	------
TOTAL	3.997	4.357	15.115	9.916	7.195	9.343	10.959	9.156	3.075	1.741	1.255	1.768
MEAN	129	145	488	320	257	301	365	295	103	56.2	40.5	59.6
MAX	160	264	1.070	596	488	600	673	706	185	78	66	117
MIN	99	43	108	185	147	113	141	119	65	44	34	34
†	755.6	661.1	929.9	880.3	798.8	942.9	1.177.8	1.233.8	1.240.5	1.171.9	1.070.2	1.048.1

CAL YR 1973 TOTAL 98.445 MEAN 270 MAX 1.540 MIN 41
WTR YR 1974 TOTAL 77.899 MEAN 213 MAX 1.070 MIN 34

† Monthend contents, in millions of cubic feet, in Great East and Lovell Lakes, and Horn, Wilson, Milton, Northeast, and Town House Ponds; records furnished by New Hampshire Water Resources Board.

01072850 MOHAWK BROOK NEAR CENTER STRAFFORD, N.H.

LOCATION.--Lat 43°15'47", long 71°05'50", Strafford County, on left bank 0.5 mi (0.8 km) downstream from bridge on State Highway 202A and 1.2 mi (1.9 km) east of Center Strafford.

DRAINAGE AREA.--8.87 mi² (22.97 km²).

PERIOD OF RECORD.--May 1964 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 285 ft (87 m) from topographic map.

AVERAGE DISCHARGE.--10 years, 12.1 ft³/s (0.343 m³/s), 18.53 in/yr (471 mm/yr).

EXTREMES.--Current year: Maximum discharge, 306 ft³/s (8.67 m³/s) Dec. 17 (gage height, 3.64 ft or 1.109 m), from rating curve extended above 230 ft³/s (6.51 m³/s); no flow Aug. 12-29.
Period of record: Maximum discharge, 600 ft³/s (17.0 m³/s) Apr. 2, 1973 (gage height, 4.30 ft or 1.311 m), from rating curve extended above 230 ft³/s (6.51 m³/s); maximum gage height, 6.02 ft (1.835 m) Feb. 11, 1970 (backwater from ice); no flow at times most years.

REMARKS.--Records good except those for winter period, period of backwater from leaves, and periods of no gage-height record, which are fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.24	14	6.4	21	30	12	27	20	14	1.7	.22	.05
2	.23	15	5.5	17	24	13	31	15	22	1.3	.22	.05
3	.40	7.9	5.1	13	19	14	34	18	9.0	1.3	.16	.14
4	.60	5.9	5.1	11	16	25	36	17	5.2	1.3	.12	1.3
5	.90	5.1	6.2	9.8	13	29	45	15	4.0	3.6	.31	2.1
6	.80	4.1	19	8.6	11	24	35	12	3.2	4.7	.16	1.4
7	.75	3.7	13	7.8	9.5	23	25	13	2.8	3.1	.10	1.4
8	.70	3.3	9.4	7.0	8.8	19	24	14	2.6	2.0	.05	1.1
9	.65	3.1	12	6.6	8.4	16	23	12	2.4	1.3	.03	.81
10	.60	2.8	36	6.0	8.0	13	21	35	2.2	.88	.03	.52
11	.55	2.7	23	5.8	7.6	12	25	32	2.0	.56	.02	.44
12	.53	2.5	16	5.4	7.2	11	45	50	1.8	.42	0	.37
13	.51	2.3	12	5.2	7.0	10	37	90	1.6	.32	0	.34
14	.50	2.2	69	5.1	6.7	9.0	45	37	1.4	.29	0	.40
15	.50	4.0	75	4.9	6.5	8.6	80	25	1.3	.18	0	.34
16	.48	3.5	37	4.8	6.3	8.4	42	18	4.2	.19	0	.22
17	.46	3.0	126	4.7	6.1	107	27	14	4.7	.18	0	.20
18	.45	2.2	117	4.6	5.9	49	22	10	3.0	.32	0	.22
19	.45	3.0	43	4.5	25	34	18	5.3	2.3	.48	0	.22
20	.80	3.5	28	6.0	20	27	16	4.5	1.9	.38	0	.20
21	1.0	2.9	70	11	18	27	14	3.0	1.8	.31	0	.34
22	.60	2.6	88	70	84	37	12	6.0	1.7	.27	0	.81
23	.50	2.5	40	40	40	30	12	11	1.6	.24	0	.64
24	.45	2.5	25	27	24	31	17	16	1.4	.22	0	.40
25	.50	5.0	21	22	19	33	16	17	1.4	.21	0	.40
26	.43	4.3	20	18	15	28	13	16	2.0	.20	0	.40
27	.39	3.9	62	45	13	25	12	20	2.5	.20	0	.40
28	.38	7.4	75	62	11	23	11	12	2.8	.18	0	.44
29	.37	11	52	54	------	22	11	8.4	2.6	.31	0	1.5
30	26	8.4	35	40	------	21	10	7.0	2.1	.22	.04	1.9
31	17	------	28	33	------	20	------	6.5	------	.22	.05	------
TOTAL	58.72	144.3	1.179.7	580.8	470.0	761.0	786	579.7	111.5	27.08	1.51	19.05
MEAN	1.89	4.81	38.1	18.7	16.8	24.5	26.2	18.7	3.72	.87	.049	.64
MAX	26	15	126	70	84	107	80	90	22	4.7	.31	2.1
MIN	.23	2.2	5.1	4.5	5.9	8.4	10	3.0	1.3	.18	0	.05
CFSM	.21	.54	4.30	2.11	1.89	2.76	2.95	2.11	.42	.10	.006	.07
IN.	.25	.61	4.95	2.44	1.97	3.19	3.30	2.43	.47	.11	.006	.08

CAL YR 1973 TOTAL 5.741.23 MEAN 15.7 MAX 351 MIN .05 CFSM 1.77 IN 24.08
WTR YR 1974 TOTAL 4.719.36 MEAN 12.9 MAX 126 MIN 0 CFSM 1.45 IN 19.79

NOTE.--Backwater from leaves Oct. 1-20; no gage-height record Oct. 21-29, May 21 to June 23.

PEAK DISCHARGE (BASE, 100 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-14	1945	3.34	202				
12-17	1815	3.64	306				
12-21	2030	3.30	190				
3-17	unknown	3.42	227				

01073000 OYSTER RIVER NEAR DURHAM, N.H.

LOCATION.--Lat 43°08'55", long 70°57'56", Strafford County, on left bank 200 ft (60 m) upstream from highway bridge, 2.5 mi (4.0 km) west of Durham, and 7 mi (11 km) upstream from mouth.

DRAINAGE AREA.--12.1 mi² (31.3 km²).

PERIOD OF RECORD.--October 1934 to current year. October and November 1934 monthly discharge only, published in WSP 1301.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 70 ft (21 m) from topographic map. Prior to Oct. 1, 1964, at datum 1.00 ft (0.305 m) higher.

AVERAGE DISCHARGE.--40 years, 19.3 ft³/s (0.547 m³/s), 21.66 in/yr (550 mm/yr).

EXTREMES.--Current year: Maximum discharge, 169 ft³/s (4.79 m³/s) Dec. 17 (gage height, 3.17 ft or 0.966 m); maximum gage height, 3.23 ft or 0.985 m (affected by ice) Dec. 17; minimum, 0.35 ft³/s (0.010 m³/s) Aug. 13, 14, 17.

Period of record: Maximum discharge, 862 ft³/s (24.4 m³/s) Sept. 11, 1954 (gage height, 6.47 ft or 1.972 m, present datum); maximum gage height, 8.45 ft (2.576 m), present datum, Mar. 19, 1936; minimum discharge, 0.23 ft³/s (0.007 m³/s) Aug. 18, 19, 25, 26, 27, 1971.

REMARKS.--Records good except those for winter period, which are fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.75	13	7.9	34	45	30	48	55	21	4.6	.76	1.4
2	.75	12	6.2	27	31	32	44	40	21	4.0	.62	1.4
3	1.3	6.9	7.2	22	23	26	50	30	15	3.4	.56	2.3
4	1.2	7.5	8.5	18	19	31	50	33	13	2.8	.50	5.7
5	1.1	5.8	11	14	15	49	51	27	12	2.6	.62	1.9
6	1.0	5.0	22	12	12	46	55	22	9.7	3.4	.69	1.1
7	.92	5.4	14	11	10	37	42	24	8.5	2.5	.69	1.7
8	.84	3.7	10	10	9.2	31	32	26	7.5	2.1	.50	1.9
9	.84	3.3	21	9.0	8.6	25	27	22	6.7	2.0	.62	1.3
10	.84	2.9	40	8.6	8.0	25	28	39	6.1	1.8	.62	1.1
11	.84	2.7	25	8.3	7.6	22	31	58	5.7	1.5	.69	1.0
12	.76	2.6	19	8.0	7.3	18	43	42	5.2	1.5	.56	.92
13	.76	3.7	15	7.8	7.2	13	55	74	4.8	1.6	.50	1.0
14	.92	6.0	45	7.6	7.1	11	52	52	4.4	1.4	.47	1.4
15	.92	3.6	59	7.4	7.0	11	93	34	4.1	1.3	.45	1.2
16	.92	3.2	35	7.3	7.0	14	68	26	5.7	1.3	.50	.92
17	.93	3.2	93	7.2	6.8	78	48	23	15	1.2	.50	.76
18	1.0	5.0	130	7.1	6.6	59	37	22	10	1.1	.69	.84
19	1.0	4.8	70	7.0	6.4	40	30	19	7.3	2.1	.76	.76
20	1.5	3.3	45	6.9	10	30	25	17	6.5	2.9	.84	.84
21	1.4	3.0	69	9.0	37	34	20	15	5.8	1.3	.84	1.1
22	1.0	3.5	86	29	41	68	17	14	6.7	1.1	.92	3.3
23	.92	4.5	60	31	79	66	19	18	5.1	1.0	1.2	1.5
24	.92	5.4	36	37	48	71	35	22	4.5	1.1	1.2	1.1
25	1.0	7.4	28	34	31	61	25	23	4.2	1.1	1.2	1.3
26	1.0	7.0	29	30	22	46	23	25	6.1	.92	1.1	1.4
27	.92	5.5	69	53	17	38	26	27	5.8	.92	1.0	1.5
28	.84	14	95	92	14	41	23	22	5.1	.92	1.2	1.2
29	2.0	19	78	92	------	35	21	18	4.5	1.0	1.7	8.6
30	28	11	58	73	------	31	19	17	4.7	1.0	2.6	7.8
31	15	------	41	55	------	50	------	15	------	.92	1.7	------
TOTAL	72.09	183.9	1,332.8	775.2	542.8	1,169	1,137	901	241.7	56.38	26.80	58.24
MEAN	2.33	6.13	43.0	25.0	19.4	37.7	37.9	29.1	8.06	1.82	.86	1.94
MAX	28	19	130	92	79	78	93	74	21	4.6	2.6	8.6
MIN	.75	2.6	6.2	6.9	6.4	11	17	14	4.1	.92	.45	.76
CFSM	.19	.51	3.55	2.07	1.60	3.12	3.13	2.41	.67	.15	.07	.16
IN.	.22	.57	4.10	2.38	1.67	3.59	3.50	2.77	.74	.17	.08	.18

CAL YR 1973 TOTAL 9,894.86 MEAN 27.1 MAX 476 MIN .75 CFSM 2.24 IN 30.42
WTR YR 1974 TOTAL 6,496.91 MEAN 17.8 MAX 130 MIN .45 CFSM 1.47 IN 19.97

PEAK DISCHARGE (BASE, 170 ft³/s).--No peak above base.

01073500 LAMPREY RIVER NEAR NEWMARKET, N.H.

LOCATION.--Lat 43°06'09", long 70°57'11", Rockingham County, on right bank 200 ft (60 m) upstream from Packers Falls, 2 mi (3 km) northwest of Newmarket, and 4.6 mi (7.4 km) upstream from mouth.

DRAINAGE AREA.--183 mi² (474 km²).

PERIOD OF RECORD.--July 1934 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 40 ft (12 m) from topographic map.

AVERAGE DISCHARGE.--40 years, 278 ft³/s (7.873 m³/s), 20.63 in/yr (524 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,430 ft³/s (40.5 m³/s) Dec. 18 (gage height, 5.95 ft or 1.814 m); minimum daily, 4.3 ft³/s (0.12 m³/s) Aug. 27.

Period of record: Maximum discharge, 5,490 ft³/s (155 m³/s) Mar. 20, 1936 (gage height, 14.88 ft or 4.535 m), from rating curve extended above 3,100 ft³/s (87.8 m³/s) on basis of computation of flow over dam at gage height 14.69 ft (4.478 m); minimum daily, 1 ft³/s (0.028 m³/s) Oct. 21, 1935.

REMARKS.--Records excellent. Some regulation by Pawtuckaway and Mendums Ponds (combined capacity, about 600,000,000 ft³ or 17,000,000 m³).

REVISIONS (WATER YEARS).--WSP 1231: 1936-37.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	416	211	725	887	320	494	382	274	53	14	13
2	22	446	190	626	687	303	498	410	302	48	12	12
3	23	401	166	550	563	287	531	421	286	44	11	14
4	27	338	151	507	499	301	547	391	234	41	11	33
5	29	282	149	420	406	413	564	357	188	39	11	38
6	34	246	217	400	338	484	610	323	160	41	9.4	33
7	39	222	236	380	344	487	630	311	135	40	8.7	38
8	34	206	239	365	312	410	590	307	117	37	8.4	36
9	34	192	248	442	307	350	528	282	104	34	8.2	29
10	60	180	399	454	281	312	508	328	99	31	9.7	24
11	83	170	427	422	286	273	502	516	87	27	11	21
12	77	162	435	420	265	253	558	554	78	24	11	18
13	104	155	362	378	258	208	591	714	70	23	11	16
14	115	151	411	324	251	192	595	725	63	24	10	17
15	99	144	659	320	219	195	778	678	57	20	8.4	18
16	112	144	755	318	203	194	944	526	57	18	7.4	17
17	104	140	961	291	201	465	1.010	424	85	17	6.5	14
18	93	134	1.380	261	183	735	841	376	105	16	9.0	12
19	83	130	1.300	274	170	841	660	330	98	17	7.1	11
20	92	122	1.270	265	360	671	537	287	86	18	7.4	11
21	152	115	1.160	263	442	553	434	231	77	17	7.9	12
22	132	119	1.190	380	489	719	365	196	75	16	6.8	24
23	113	112	1.260	454	684	743	342	207	70	15	6.5	31
24	96	106	1.240	517	684	750	433	281	62	15	5.8	24
25	101	109	1.070	530	656	695	456	290	56	14	5.0	20
26	132	109	733	490	525	629	385	303	62	14	4.5	24
27	139	112	791	555	421	551	330	326	69	13	4.3	30
28	143	139	982	836	367	472	281	323	65	13	4.5	27
29	123	204	1.150	1.030	------	403	257	289	62	13	5.4	49
30	267	215	1.120	1.100	------	358	244	277	60	14	12	99
31	373	------	905	1.030	------	438	------	259	------	13	15	------
TOTAL	3.056	5.721	21.767	15.327	11.288	14.005	16.043	11.624	3.343	769	269.9	765
MEAN	98.6	191	702	494	403	452	535	375	111	24.8	8.71	25.5
MAX	373	446	1.380	1.100	887	841	1.010	725	302	53	15	99
MIN	21	106	149	261	170	192	244	196	56	13	4.3	11
CFSM	.54	1.04	3.84	2.70	2.20	2.47	2.92	2.05	.61	.14	.05	.14
IN.	.62	1.16	4.42	3.12	2.29	2.85	3.26	2.36	.68	.16	.05	.16

CAL YR 1973 TOTAL 145.539.0 MEAN 399 MAX 2.960 MIN 18 CFSM 2.18 IN 29.58
WTR YR 1974 TOTAL 103.977.9 MEAN 285 MAX 1.380 MIN 4.3 CFSM 1.56 IN 21.14

NOTE.--Discharge in cubic feet per second per square mile and runoff in inches may not represent natural flow because of regulation.

PISCATAQUA RIVER BASIN

01073600 DUDLEY BROOK NEAR EXETER, N.H.

LOCATION.--Lat 42°59'37", long 71°01'24", Rockingham County, on right bank 2.4 mi (3.9 km) upstream from mouth and 3.5 mi (5.6 km) west of Exeter.

DRAINAGE AREA.--4.97 mi² (12.87 km²).

PERIOD OF RECORD.--May 1962 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 90 ft (27 m) from topographic map.

AVERAGE DISCHARGE.--12 years, 7.05 ft³/s (0.200 m³/s), 19.26 in/yr (489 mm/yr).

EXTREMES.--Current year: Maximum discharge, 103 ft³/s (2.92 m³/s) Jan. 28 (gage height, 5.75 ft or 1.75 m), from rating curve extended above 210 ft³/s (5.95 m³/s); minimum, 0.10 ft³/s (0.003 m³/s) Oct. 1, 2.

Period of record: Maximum discharge, 358 ft³/s (10.14 m³/s) Apr. 2, 1973 (gage height, 7.74 ft or 2.36 m), from rating curve extended above 210 ft³/s (5.95 m³/s); no flow at times some years.

REMARKS.--Records good except those for winter period, which are fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.11	9.2	4.8	8.3	19	5.7	25	22	6.7	.63	.30	.26
2	.10	8.3	2.6	6.3	14	8.0	16	20	14	.50	.29	.26
3	.14	5.2	1.8	5.5	8.0	7.8	20	8.7	6.1	.43	.27	.66
4	.24	2.7	1.5	4.9	6.1	8.5	21	8.5	3.7	.41	.29	2.1
5	.22	1.6	1.9	4.2	5.2	16	24	8.5	2.7	.41	.27	1.6
6	.24	1.0	7.5	3.7	4.3	16	26	5.3	2.3	.63	.26	.54
7	.24	.61	8.5	3.3	3.4	12	18	5.2	1.9	.50	.27	.72
8	.24	.72	4.4	3.1	3.1	10	10	6.1	1.7	.39	.27	1.3
9	.24	.75	5.9	2.7	3.1	7.1	6.0	5.3	1.5	.32	.34	.66
10	.22	.69	29	2.4	3.1	5.5	8.0	13	1.3	.30	.36	.34
11	.22	.60	15	2.3	3.0	4.5	10	34	1.2	.30	.29	.27
12	.22	.54	6.9	2.2	3.0	3.5	18	17	1.2	.30	.21	.22
13	.22	.57	4.1	2.2	3.0	2.9	23	33	1.0	.30	.29	.21
14	.24	.63	12	2.1	2.9	2.5	20	21	.81	.29	.27	.57
15	.22	.69	36	2.1	2.8	2.4	45	11	.72	.29	.26	.69
16	.22	.75	13	2.0	2.7	3.0	20	5.9	.81	.29	.22	.36
17	.22	.93	27	2.0	2.6	42	14	4.7	2.6	.29	.21	.27
18	.24	.93	80	2.0	2.6	34	11	4.4	3.0	.29	.27	.26
19	.27	.89	28	2.0	2.8	17	9.0	3.4	1.7	.29	.27	.24
20	.34	.78	11	1.9	41	12	7.0	2.6	1.2	.30	.26	.22
21	.45	.75	19	1.9	29	16	5.5	2.4	1.0	.30	.26	.36
22	.47	.78	47	5.9	21	52	4.7	2.2	1.0	.30	.24	2.4
23	.45	1.0	20	14	42	36	4.9	3.3	.84	.29	.22	2.0
24	.43	1.1	8.5	19	20	26	18	9.0	.69	.29	.24	.93
25	.45	1.5	5.2	18	12	22	19	10	.66	.29	.22	.54
26	.45	2.2	3.8	17	7.8	12	10	8.5	1.3	.29	.22	.52
27	.47	2.2	27	35	6.1	12	6.7	11	1.7	.29	.21	.80
28	.50	6.6	32	74	5.2	7.5	5.2	7.5	1.4	.29	.22	4.5
29	.47	16	26	50	------	5.5	4.4	5.0	.93	.29	.24	40
30	5.3	10	17	35	------	5.0	4.3	4.4	.81	.29	.34	35
31	15	------	9.7	23	------	21	------	3.8	------	.30	.39	------
TOTAL	28.84	80.41	516.1	358.0	278.8	435.4	433.7	306.7	66.47	10.68	8.27	98.80
MEAN	.93	2.68	16.6	11.5	9.96	14.0	14.5	9.89	2.22	.34	.27	3.29
MAX	15	16	80	74	42	52	45	34	14	.63	.39	40
MIN	.10	.54	1.5	1.9	2.6	2.4	4.3	2.2	.66	.29	.21	.21
CFSM	.19	.54	3.34	2.31	2.00	2.82	2.92	1.99	.45	.07	.05	.66
IN.	.22	.60	3.86	2.68	2.09	3.26	3.25	2.30	.50	.08	.06	.74

CAL YR 1973 TOTAL 3,443.42 MEAN 9.43 MAX 241 MIN .10 CFSM 1.90 IN 25.77
WTR YR 1974 TOTAL 2,622.17 MEAN 7.18 MAX 80 MIN .10 CFSM 1.44 IN 19.63

PEAK DISCHARGE (BASE, 100 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-18	0245	5.73	101				
1-28	0115	5.75	103				

01075000 PEMIGEWASSET RIVER AT WOODSTOCK, N.H.

LOCATION.--Lat 43°58'34", long 71°40'48", Grafton County, on right bank 0.2 mi (0.3 km) east of Woodstock and 0.7 mi (1.1 km) upstream from Eastman Brook.

DRAINAGE AREA.--193 mi² (500 km²).

PERIOD OF RECORD.--October 1939 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 615 ft (187 m) from topographic map.

AVERAGE DISCHARGE.--35 years, 510 ft³/s (14.44 m³/s), 35.89 in/yr (912 mm/yr).

EXTREMES.--Current year: Maximum discharge, 25,700 ft³/s (728 m³/s) Dec. 21 (gage height, 12.64 ft or 3.853 m); minimum daily, 103 ft³/s (2.92 m³/s) Oct. 29.
Period of record: Maximum discharge, 47,000 ft³/s (1,330 m³/s) Oct. 24, 1959 (gage height, 16.13 ft or 4.916 m), from rating curve extended above 14,000 ft³/s (396 m³/s) on basis of contracted-opening measurement of peak flow; minimum daily, 42 ft³/s (1.19 m³/s) Feb. 11, 1948.

REMARKS.--Records good except those for winter period, which are fair. Some diurnal fluctuation caused by powerplant above station.

REVISIONS (WATER YEARS).--WSP 1701: 1942(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	115	1,380	568	580	290	260	269	3,470	1,370	332	211	246
2	110	1,810	467	500	270	230	263	1,850	1,070	303	176	211
3	160	1,000	427	450	250	223	384	1,170	804	269	160	375
4	372	697	415	400	240	231	1,170	1,420	691	301	344	1,240
5	466	536	662	370	230	818	3,220	1,010	612	756	784	648
6	599	451	2,350	340	220	1,060	2,690	825	554	590	356	404
7	325	383	1,010	300	240	940	1,180	790	504	403	247	323
8	244	341	697	270	230	1,240	1,030	741	456	349	208	270
9	210	310	624	250	220	655	758	650	419	312	189	235
10	191	273	1,360	230	210	513	662	982	388	406	180	213
11	175	249	827	220	200	400	567	1,310	389	334	161	201
12	167	235	634	210	190	340	528	1,060	357	276	147	190
13	152	231	505	200	180	295	552	3,270	329	239	135	231
14	153	230	1,420	220	170	338	732	1,600	296	211	125	265
15	156	267	1,720	240	160	308	2,910	1,520	283	285	118	208
16	168	1,390	845	240	170	278	1,730	1,390	267	296	107	176
17	172	820	1,640	220	180	1,570	1,160	1,090	873	216	119	158
18	150	511	2,720	200	170	1,110	1,440	985	943	188	605	160
19	137	406	1,040	190	160	655	1,410	784	546	329	251	152
20	139	347	882	180	160	516	1,100	665	435	722	189	185
21	150	303	14,400	220	160	451	1,130	588	474	375	159	752
22	142	344	5,300	260	250	459	2,320	548	395	278	140	866
23	131	343	2,050	350	700	386	4,240	2,210	364	240	129	449
24	125	321	1,240	300	580	430	4,190	2,100	307	299	136	331
25	119	631	930	280	490	496	1,830	1,840	290	238	160	287
26	116	536	1,350	270	400	355	1,330	1,840	387	204	123	291
27	113	436	2,260	400	340	316	1,020	1,550	467	186	115	262
28	108	1,050	1,520	700	300	284	1,310	1,120	445	206	115	252
29	103	1,250	1,060	450	------	281	2,520	975	348	358	154	1,520
30	1,320	731	853	350	------	263	2,940	866	354	238	764	1,500
31	1,050	------	701	320	------	266	------	777	------	265	394	------
TOTAL	7,838	17,812	52,477	9,710	7,360	15,967	46,585	40,996	15,417	10,004	7,201	12,601
MEAN	253	594	1,693	313	263	515	1,553	1,322	514	323	232	420
MAX	1,320	1,810	14,400	700	700	1,570	4,240	3,470	1,370	756	784	1,520
MIN	103	230	415	180	160	223	263	548	267	186	107	152
CFSM	1.31	3.08	8.77	1.62	1.36	2.67	8.05	6.85	2.66	1.67	1.20	2.18
IN.	1.51	3.43	10.11	1.87	1.42	3.08	8.98	7.90	2.97	1.93	1.39	2.43

CAL YR 1973 TOTAL 295,942 MEAN 811 MAX 16,700 MIN 67 CFSM 4.20 IN 57.04
WTR YR 1974 TOTAL 243,968 MEAN 668 MAX 14,400 MIN 103 CFSM 3.46 IN 47.02

PEAK DISCHARGE (BASE, 7,100 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-21	1800	12.64	25,700				

01075800 STEVENS BROOK NEAR WENTWORTH, N.H.

LOCATION.--Lat 43°50'12", long 71°53'07", Grafton County, on left bank 150 ft (46 m) upstream from highway bridge, 0.2 mi (0.3 km) upstream from mouth, and 2.5 mi (4.0 km) southeast of Wentworth.

DRAINAGE AREA.--2.94 mi² (7.61 km²).

PERIOD OF RECORD.--May 1963 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 595 ft (181 m) from topographic map.

AVERAGE DISCHARGE.--11 years, 4.69 ft³/s (0.133 m³/s), 21.66 in/yr (550 mm/yr).

EXTREMES.--Current year: Maximum discharge, 363 ft³/s (10.3 m³/s) Dec. 21 (gage height, 4.25 ft or 1.295 m), from rating curve extended above 120 ft³/s (3.40 m³/s); minimum, 0.03 ft³/s (0.001 m³/s) Aug. 16, 17.

Period of record: Maximum discharge, 1,120 ft³/s (31.7 m³/s) June 30, 1973 (gage height, 6.36 ft or 1.939 m), from rating curve extended above 120 ft³/s (3.40 m³/s); minimum, 0.01 ft³/s (<0.001 m³/s) Aug. 8-13, Sept. 18-29, 1963, Sept. 16, 19-21, 1964, Aug. 15-18, 1965, Aug. 18-23, 1971.

REMARKS.--Records good except those for winter period, which are fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.25	6.1	4.5	5.6	6.0	3.0	3.4	29	5.2	1.3	.19	.72
2	.25	8.9	3.4	4.7	8.0	2.8	4.0	16	4.6	.81	.15	.66
3	.45	4.8	2.7	4.2	5.0	2.6	11	13	3.8	.84	.19	4.6
4	.61	2.7	2.6	3.7	4.5	2.6	64	15	3.2	.69	2.1	15
5	2.0	2.0	3.6	3.4	3.3	15	86	12	2.6	2.9	6.8	4.5
6	4.5	1.7	17	3.1	2.4	40	32	10	2.2	2.6	1.8	2.1
7	1.7	1.3	7.0	2.8	1.9	25	15	13	1.8	1.3	.72	1.5
8	.96	1.2	4.8	2.5	1.5	15	17	11	1.5	.97	.50	.92
9	.74	1.1	6.6	2.2	1.2	8.0	9.7	8.6	1.3	.69	.36	.66
10	.53	.90	22	2.4	1.1	5.8	11	16	.88	.54	.30	.54
11	.45	.79	8.6	2.3	1.0	5.0	8.1	19	.88	.42	.25	.50
12	.39	.74	5.7	2.2	.96	4.5	8.9	12	.78	.36	.21	.42
13	.37	.74	4.1	2.1	.90	4.2	11	43	.78	.32	.17	.84
14	.37	.74	42	2.2	.86	4.0	29	15	.66	.25	.13	1.7
15	.34	.90	29	2.2	.85	3.7	76	11	.62	.54	.10	1.5
16	.31	12	14	2.1	.84	3.6	23	8.6	.57	.75	.04	.81
17	.31	7.8	8.0	2.0	.84	20	16	8.6	1.3	.50	.23	.62
18	.31	4.5	6.6	1.8	.84	9.7	20	7.5	2.6	.36	.45	.52
19	.31	3.1	5.0	1.8	.86	5.0	18	6.3	1.3	.34	.30	.45
20	.31	2.4	4.5	1.8	.88	4.5	14	5.2	.84	.52	.23	.50
21	.29	2.1	166	2.1	1.5	4.3	17	4.8	.72	.36	.15	2.1
22	.29	1.8	42	15	10	5.2	33	4.5	.66	.28	.11	11
23	.27	1.8	18	6.3	45	3.8	59	6.9	.57	.23	.10	4.2
24	.27	1.9	11	6.3	20	6.0	54	10	.57	.21	.11	2.4
25	.27	4.0	10	4.8	7.0	6.6	31	11	.78	.19	.13	1.8
26	.27	4.0	9.0	4.0	4.5	4.2	25	15	1.5	.17	.06	1.6
27	.27	3.3	49	9.7	3.8	3.5	20	12	2.2	.13	.04	1.3
28	.27	13	27	18	3.3	3.0	17	8.1	2.4	.13	.10	1.0
29	.27	12	13	11	------	2.7	20	6.6	1.4	.13	.72	4.3
30	5.0	5.9	8.4	8.6	------	2.8	19	5.7	1.7	.13	1.8	9.4
31	6.3	------	6.6	7.0	------	3.1	------	4.8	------	.31	1.3	------
TOTAL	29.23	114.21	561.7	147.9	138.83	229.2	772.1	369.2	49.91	19.27	19.84	78.16
MEAN	.94	3.81	18.1	4.77	4.96	7.39	25.7	11.9	1.66	.62	.64	2.61
MAX	6.3	13	166	18	45	40	86	43	5.2	2.9	6.8	15
MIN	.25	.74	2.6	1.8	.84	2.6	3.4	4.5	.57	.13	.04	.42
CFSM	.32	1.30	6.16	1.62	1.69	2.51	8.74	4.05	.56	.21	.22	.89
IN.	.37	1.45	7.11	1.87	1.76	2.90	9.77	4.67	.63	.24	.25	.99

CAL YR 1973 TOTAL 3.002.39 MEAN 8.23 MAX 270 MIN .13 CFSM 2.80 IN 37.99
WTR YR 1974 TOTAL 2.529.55 MEAN 6.93 MAX 166 MIN .04 CFSM 2.36 IN 32.01

PEAK DISCHARGE (BASE, 90 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-14	1800	3.12	127	4-5	1645	3.12	127
12-21	1615	4.25	363	4-15	0145	3.21	141
12-27	0615	3.09	123	4-23	2145	3.57	204

01076000 BAKER RIVER NEAR RUMNEY, N.H.

LOCATION.--Lat 43°47'46", long 71°50'42", Grafton County, on right bank 200 ft (60 m) upstream from small right-bank tributary, 0.3 mi (0.5 km) upstream from Halls Brook, and 1.8 mi (2.9 km) southwest of Rumney.

DRAINAGE AREA.--143 mi² (370 km²).

PERIOD OF RECORD.--October 1928 to current year. October 1928 monthly discharge only, published in WSP 1301.

GAGE.--Water-stage recorder. Concrete control since Sept. 10, 1938. Altitude of gage is 495 ft (151 m) from topographic map.

AVERAGE DISCHARGE.--46 years, 253 ft³/s (7.165 m³/s), 24.03 in/yr (610 mm/yr).

EXTREMES.--Current year: Maximum discharge, 7,630 ft³/s (216 m³/s) Dec. 21 (gage height, 10.75 ft or 3.277 m); minimum, 37 ft³/s (1.05 m³/s) Oct. 2, 3.

Period of record: Maximum discharge, 21,400 ft³/s (606 m³/s) June 15, 1942 (gage height, 15.50 ft or 4.724 m), from rating curve extended above 3,800 ft³/s (108 m³/s) on basis of slope-area measurements at gage heights 13.03, 14.49, and 15.50 ft (3.972, 4.417, and 4.924 m); minimum, 6.5 ft³/s (0.18 m³/s) Dec. 4, 1947, caused by ice conditions upstream.

Maximum discharge since valley was settled about 1766, 25,900 ft³/s (733 m³/s) Nov. 3, 1927 (gage height, 17.4 ft or 5.30 m, from floodmarks), from rating curve extended above 3,800 ft³/s (108 m³/s) as described above.

REMARKS.--Records excellent except those for winter period, which are fair. High flow slightly affected by retarding reservoirs since 1968.

REVISIONS (WATER YEARS).--WSP 726: Drainage area. WSP 781: 1934(M). WSP 1231: 1929-33(M), 1934.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	39	276	260	360	350	184	173	444	410	139	71	89
2	37	430	195	280	360	171	188	660	370	125	56	78
3	46	271	160	240	260	156	329	441	275	117	53	129
4	104	207	156	210	170	157	479	590	221	107	42	585
5	138	159	184	200	130	367	1.900	487	188	168	424	352
6	230	133	604	180	135	685	1.710	406	163	163	155	191
7	128	114	387	180	125	722	1.000	437	143	123	49	135
8	96	104	264	150	120	945	1.030	419	127	113	77	102
9	79	97	242	110	115	660	720	356	117	102	67	84
10	70	86	671	140	110	500	585	496	107	107	61	73
11	63	79	447	130	105	380	473	714	117	95	56	67
12	59	76	321	120	100	300	446	540	111	92	51	63
13	57	76	231	115	92	230	469	1.310	104	71	47	88
14	58	77	729	120	90	200	654	783	95	65	46	155
15	65	80	1.040	125	88	175	2.280	606	93	75	48	129
16	64	394	570	120	84	170	1.580	491	89	133	40	92
17	70	370	360	115	82	804	1.300	424	145	84	41	76
18	65	230	280	110	81	618	1.410	379	343	70	101	69
19	61	175	260	110	80	420	1.290	302	191	67	65	65
20	58	143	240	105	90	310	1.020	251	141	95	55	64
21	59	118	4.010	110	90	230	965	218	119	92	49	122
22	56	127	2.840	230	106	250	1.300	200	109	74	45	606
23	52	127	1.370	261	572	200	1.630	437	104	65	42	307
24	52	120	800	305	510	300	1.660	618	98	63	43	200
25	50	187	700	250	330	310	1.090	666	133	60	42	158
26	48	192	580	207	260	250	811	888	150	55	39	143
27	47	163	1.250	288	200	200	630	783	191	52	38	129
28	47	494	1.140	554	190	170	595	555	179	52	40	115
29	45	587	824	474	------	160	684	464	133	78	80	329
30	195	360	612	367	------	155	702	397	153	66	182	839
31	336	------	430	308	------	158	------	338	------	79	133	------
TOTAL	2.574	6.052	22.147	6.574	5.015	10.539	29.603	16.650	4.919	2.927	2.428	5.634
MEAN	83.0	202	714	212	179	340	987	537	164	91.2	78.3	188
MAX	336	587	4.010	554	572	945	2.280	1.310	410	168	424	839
MIN	37	76	156	105	80	155	173	200	89	52	38	63
CFSM	.58	1.41	4.99	1.48	1.25	2.38	6.90	3.76	1.15	.64	.55	1.31
IN.	.67	1.57	5.76	1.71	1.30	2.74	7.70	4.33	1.28	.74	.63	1.47

CAL YR 1973 TOTAL 150.829 MEAN 413 MAX 8.300 MIN 33 CFSM 2.89 IN 39.24
WTR YR 1974 TOTAL 114.962 MEAN 315 MAX 4.010 MIN 37 CFSM 2.20 IN 29.91

PEAK DISCHARGE (BASE, 3,600 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-21	2100	10.75	7,630				

MERRIMACK RIVER BASIN

01076500 PEMIGEWASSET RIVER AT PLYMOUTH, N.H.

LOCATION.--Lat 43°45'33", long 71°41'10", Grafton County, on right bank 150 ft (46 m) downstream from bridge at Plymouth and 0.3 mi (0.5 km) downstream from Baker River.

DRAINAGE AREA.--622 mi² (1,611 km²).

PERIOD OF RECORD.--October 1903 to current year. Records for April 1886 to September 1903, published in WSP 124, are unreliable and should not be used.

GAGE.--Water-stage recorder. Datum of gage is 457.07 ft (139.315 m) above mean sea level. Prior to Jan. 1, 1910, nonrecording gage at sites 150 ft (46 m) and 200 ft (60 m) upstream at present datum or datum 1.11 ft (0.338 m) lower. Jan. 1, 1910, to Sept. 30, 1926, nonrecording gage at site 200 ft (60 m) upstream at present datum.

AVERAGE DISCHARGE.--71 years, 1,348 ft³/s (38.18 m³/s), 29.43 in/yr (748 mm/yr).

EXTREMES.--Current year: Maximum discharge, 42,900 ft³/s (1,210 m³/s) Dec. 21 (gage height, 20.61 ft or 6.282 m); minimum, 230 ft³/s (6.51 m³/s) Aug. 27, 28.

Period of record: Maximum discharge, 65,400 ft³/s (1,850 m³/s) Mar. 19, 1936 (gage height, 29.0 ft or 8.84 m, from floodmarks), from rating curve extended above 43,000 ft³/s (1,220 m³/s) on basis of computations of flow over dam at gage heights 23.0, 27.4, and 29.0 ft (7.01, 8.35, and 8.84 m); minimum, 39 ft³/s (1.10 m³/s) Oct. 1, 3, 4, 1948; minimum daily, 45 ft³/s (1.27 m³/s) Sept. 20, 1923.

REMARKS.--Records good except those for winter period, which are fair. Some diurnal fluctuation during period 1940-52 caused by power-plants above station. Records of suspended-sediment loads for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 471: 1912-14. WSP 726: Drainage area. WSP 1231: 1904-11, 1913-14, 1917-18, 1919(M), 1920-25, 1926-27(M). 1929-31(M). WSP 1721: 1959(M). See also PERIOD OF RECORD.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	276	2,010	1,710	2,320	1,400	940	945	6,310	2,510	930	464	570
2	272	4,080	1,300	1,950	1,000	900	990	4,830	2,600	814	376	464
3	298	2,350	1,110	1,650	1,100	860	1,310	3,060	2,020	736	342	520
4	605	1,830	1,000	1,680	1,000	840	3,380	3,220	1,720	699	419	2,710
5	689	1,350	1,090	1,500	860	1,200	7,920	2,810	1,500	1,630	1,960	2,020
6	1,830	1,060	4,610	1,350	800	2,900	10,200	2,360	1,310	1,700	900	1,090
7	950	848	2,900	1,400	840	3,000	4,430	2,340	1,150	1,100	580	775
8	616	727	2,010	1,200	800	4,470	4,000	2,300	1,020	870	473	622
9	493	657	1,730	1,050	760	2,720	3,020	2,020	930	762	410	530
10	439	566	3,520	1,050	720	2,050	2,510	2,280	840	840	376	464
11	394	500	2,640	1,000	700	1,600	2,140	3,900	855	788	342	419
12	378	466	2,020	970	680	1,350	2,130	2,890	827	633	303	402
13	362	459	1,540	940	640	1,200	2,200	7,610	762	550	282	446
14	351	459	3,680	900	600	1,300	2,450	4,650	688	491	275	644
15	362	466	7,020	900	560	1,150	9,700	3,420	644	491	260	600
16	355	2,250	3,050	860	600	1,010	7,490	3,170	611	762	242	464
17	370	2,490	3,110	830	620	4,030	4,630	2,640	1,630	570	247	393
18	355	1,510	7,070	800	560	3,770	5,040	2,460	2,440	473	814	368
19	335	1,070	2,900	780	540	2,280	5,100	2,080	1,550	446	550	351
20	325	834	3,200	780	560	1,750	3,880	1,790	1,100	1,030	385	342
21	335	668	22,400	820	580	1,360	3,490	1,590	1,010	736	318	510
22	330	714	23,200	1,100	600	1,400	4,860	1,450	900	560	289	2,610
23	320	727	7,440	1,500	1,400	1,300	9,040	2,560	814	473	267	1,510
24	311	678	4,290	1,450	2,300	1,440	11,100	4,620	736	464	267	930
25	298	1,280	3,190	1,300	1,550	1,610	5,770	3,950	775	428	282	723
26	293	1,530	3,220	1,050	1,250	1,240	3,890	4,110	990	376	260	677
27	293	1,090	5,960	1,200	1,100	1,130	3,050	4,050	1,220	342	236	633
28	285	2,580	5,640	2,800	1,000	975	2,940	2,980	1,220	351	242	580
29	276	3,360	4,030	2,300	------	801	4,140	2,550	945	570	385	1,550
30	995	2,280	3,130	1,900	------	885	4,980	2,300	1,090	482	1,170	3,920
31	3,160	------	2,530	1,600	------	855	------	2,060	------	510	915	------
TOTAL	16,951	40,889	142,240	40,930	25,120	52,316	136,725	98,360	36,407	21,607	14,631	27,837
MEAN	547	1,363	4,588	1,320	897	1,688	4,558	3,173	1,214	697	472	928
MAX	3,160	4,080	23,200	2,800	2,300	4,470	11,100	7,610	2,600	1,700	1,960	3,920
MIN	272	459	1,000	780	540	801	945	1,450	611	342	236	342
CFSM	.88	2.19	7.38	2.12	1.44	2.71	7.33	5.10	1.95	1.12	.76	1.49
IN.	1.01	2.45	8.51	2.45	1.50	3.13	8.18	5.88	2.18	1.29	.88	1.66

CAL YR 1973 TOTAL 812,312 MEAN 2,226 MAX 31,600 MIN 228 CFSM 3.58 IN 48.58
WTR YR 1974 TOTAL 654,013 MEAN 1,792 MAX 23,200 MIN 236 CFSM 2.88 IN 39.11

PEAK DISCHARGE (BASE, 12,600 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-21	2400	20.61	42,900				
4-6	0200	9.92	14,300				
4-24	0930	9.51	13,500				

01077000 SQUAM RIVER AT ASHLAND, N.H.

LOCATION.--Lat 43"42'19", long 71°37'49", Grafton County, on right bank 200 ft (60 m) upstream from highway bridge, 0.7 mi (1.1 km) north of Ashland, and 1.4 mi (2.3 km) downstream from Little Squam Lake.

DRAINAGE AREA.--57.6 mi² (149.2 km²).

PERIOD OF RECORD.-August 1939 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 545 ft (166 m) from topographic map.

AVERAGE DISCHARGE.--35 years, 87.7 ft³/s (2.484 m³/s).

EXTREMES.--Current year: Maximum discharge, 468 ft³/s (13.3 m³/s) Dec. 28 (gage height, 11.85 ft or 3.612 m); minimum daily, 5.0 ft³/s (0.14 m³/s) June 30.
Period of record: Maximum discharge, 1,090 ft³/s (30.9 m³/s) July 4, 1973 (gage height, 14.29 ft or 4.356 m); minimum daily, 1.4 ft³/s (0.040 m³/s) Nov. 28, 1969.

REMARKS.--Records excellent. Flow completely regulated by Squam and Little Squam Lakes.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	72	60	59	443	196	81	98	190	192	10	60	59
2	72	59	59	440	196	81	98	188	191	17	60	59
3	72	59	59	437	195	81	99	250	191	17	60	59
4	72	59	59	433	193	81	100	303	158	17	60	60
5	72	59	59	428	193	81	110	302	111	19	60	60
6	72	59	59	425	193	82	120	300	111	18	60	59
7	71	59	59	421	193	82	120	295	75	18	60	59
8	71	59	59	414	167	82	120	290	59	18	60	59
9	71	59	59	406	126	82	120	289	58	16	60	59
10	71	59	59	342	126	82	120	197	58	19	60	59
11	71	59	59	231	126	81	120	115	57	11	60	59
12	71	59	59	229	126	70	167	116	57	43	60	59
13	71	59	59	229	126	57	216	198	57	53	60	59
14	71	59	62	229	126	57	216	251	56	51	60	59
15	70	59	60	227	126	58	266	251	56	58	60	59
16	69	59	60	226	126	58	307	188	56	60	60	59
17	69	59	61	226	126	61	307	137	56	64	60	59
18	69	59	62	225	124	59	246	136	56	61	60	59
19	69	59	87	225	124	59	193	136	56	61	59	59
20	69	59	126	224	126	59	192	104	57	60	59	59
21	69	59	178	224	126	80	191	77	57	60	59	59
22	69	59	277	224	111	98	191	77	57	60	59	59
23	69	59	277	174	82	98	191	92	57	60	59	59
24	69	59	205	130	81	98	193	112	57	60	59	59
25	69	59	134	130	81	98	191	112	57	60	59	59
26	64	59	171	130	81	97	191	113	57	60	59	59
27	60	59	257	131	81	98	191	153	57	60	59	59
28	60	59	395	131	81	98	190	193	57	60	59	59
29	60	59	453	132	------	98	189	193	21	60	59	59
30	60	59	447	157	------	98	189	193	5.0	60	59	59
31	59	------	444	197	------	98	------	192	------	60	59	------
TOTAL	2,123	1,771	4,523	8,220	3,758	2,493	5,242	5,743	2,250.0	1,351	1,847	1,772
MEAN	68.5	59.0	146	265	134	80.4	175	185	75.0	43.6	59.6	59.1
MAX	72	60	453	443	196	98	307	303	192	64	60	60
MIN	59	59	59	130	81	57	98	77	5.0	10	59	59

CAL YR 1973 TOTAL 55,283.0 MEAN 151 MAX 986 MIN 36
WTR YR 1974 TOTAL 41,093.0 MEAN 113 MAX 453 MIN 5.0

MERRIMACK RIVER BASIN

01078000 SMITH RIVER NEAR BRISTOL, N.H.

LOCATION.--Lat 43°34'04", long 71°44'54", Merrimack County, on right bank in Hill, 1.5 mi (2.4 km) upstream from mouth and 1.8 mi (2.9 km) southwest of Bristol.

DRAINAGE AREA.--85.8 mi² (222.2 km²).

PERIOD OF RECORD.--May 1918 to current year.

GAGE.--Water-stage recorder. Datum of gage is 449.80 ft (137.099 m) above mean sea level (levels by Corps of Engineers). Prior to Nov. 25, 1933, nonrecording gage at site 1.5 mi (2.4 km) upstream at different datum.

AVERAGE DISCHARGE.--56 years, 142 ft³/s (4.021 m³/s), 22.48 in/yr (571 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,980 ft³/s (56.1 m³/s) Dec. 21 (gage height, 7.09 ft or 2.161 m), from rating curve extended above 1,600 ft³/s (45.3 m³/s) by logarithmic plotting; minimum, 8.6 ft³/s (0.24 m³/s) Aug. 26, 27, 28, 29.
Period of record: Maximum discharge, 8,100 ft³/s (229 m³/s) Mar. 19, 1936 (gage height, 16.09 ft or 4.904 m, from floodmarks), from rating curve extended above 2,700 ft³/s (76.5 m³/s) on basis of contracted-opening measurement of peak flow; minimum daily, 2.7 ft³/s (0.076 m³/s) Aug. 2, 1933.
Maximum stage since at least 1885, that of Mar. 19, 1936.

REMARKS.--Record excellent except those for winter period, which are fair. Prior to 1954, some diurnal fluctuation caused by small mill above station; greater fluctuation prior to 1941.

REVISIONS (WATER YEARS).--WSP 711: Drainage area. WSP 781: 1934. WSP 1231: 1919, 1920-21(M), 1922-31, 1932-33(M), 1941-43.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	171	126	261	220	105	126	306	166	86	22	32
2	21	188	98	210	180	111	182	342	151	61	19	27
3	26	136	76	180	150	104	271	256	132	68	18	68
4	29	* 105	73	160	130	104	587	300	115	67	19	288
5	41	82	85	140	110	188	967	274	101	105	31	206
6	68	70	219	120	100	402	1,190	216	88	148	20	111
7	56	63	215	110	86	496	826	225	76	101	17	76
8	62	58	167	100	80	580	630	223	68	98	16	57
9	35	55	163	96	74	411	456	195	63	102	15	46
10	31	50	325	92	70	276	316	261	58	72	14	38
11	29	44	281	94	68	210	285	435	59	57	13	32
12	28	43	202	90	76	160	309	367	62	46	13	29
13	26	42	141	86	66	130	327	635	56	39	12	26
14	29	43	407	86	66	120	375	570	55	36	11	31
15	29	48	597	96	60	110	973	366	51	31	10	30
16	27	83	393	95	55	110	972	267	53	29	9.6	26
17	26	120	294	86	53	613	759	233	114	26	9.7	22
18	26	90	240	76	52	595	507	213	155	26	12	23
19	26	73	183	74	50	347	494	180	111	26	15	22
20	27	63	155	72	51	236	380	157	82	35	14	22
21	30	56	950	72	52	170	313	141	66	39	12	36
22	31	56	1,320	148	56	150	303	132	60	29	12	96
23	30	57	1,110	178	150	140	330	140	56	26	11	87
24	29	56	805	178	210	150	390	213	67	26	10	56
25	28	83	560	160	200	180	358	406	45	24	9.4	43
26	28	101	326	138	155	150	205	453	67	23	8.8	38
27	28	88	550	144	120	130	250	416	76	22	8.7	36
28	27	126	685	336	110	120	220	303	67	20	8.8	31
29	27	205	650	370	------	115	206	243	58	20	36	39
30	128	170	516	315	------	110	202	213	80	21	67	77
31	255	------	343	258	------	105	------	186	------	23	48	------
TOTAL	1,280	2,625	12,185	4,637	2,866	6,928	13,885	8,863	2,434	1,522	539.6	1,725
MEAN	41.3	87.5	393	150	102	223	463	285	81.1	49.1	17.4	57.5
MAX	255	205	1,320	370	220	613	1,190	635	166	148	67	288
MIN	21	42	73	72	50	104	126	132	45	20	8.7	22
CFSM	.48	1.02	4.58	1.75	1.19	2.60	5.40	3.32	.95	.57	.20	.67
IN.	.55	1.14	5.29	2.01	1.23	3.00	6.02	3.83	1.06	.66	.23	.75

CAL YR 1973 TOTAL 84,257.0 MEAN 231 MAX 2,700 MIN 18 CFSM 2.69 IN 36.53
WTR YR 1974 TOTAL 59,457.0 MEAN 163 MAX 1,320 MIN 8.7 CFSM 1.90 IN 25.78

PEAK DISCHARGE (BASE, 1,150 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-21	1730	7.09	1,980				
4-6	0030	5.87	1,310				

01080000 LAKE WINNIPESAUKEE AT WEIRS BEACH, N.H.

LOCATION.--Lat 43°36'27", long 71°27'30", Belknap County, 1,300 ft (400 m) north of highway bridge at Weirs Beach.

DRAINAGE AREA.--363 mi² (940 km²) at outlet at Lakeport.

PERIOD OF RECORD.--September 1933 to current year. Prior to November 1937, monthend contents only, published in WSP 1301. Prior to October 1970, published as "at The Weirs."

GAGE.--Water-stage recorder. Datum of gage is 500.00 ft (152.400 m) above mean sea level. Prior to November 1937, nonrecording gage at lake outlet at Lakeport at datum 0.53 ft (0.162 m) higher. Nov. 24, 1937, to Nov. 7, 1965, water-stage recorder at site 500 ft (150 m) south at present datum.

EXTREMES.--Current year: Maximum daily gage height, 4.54 ft (1.384 m) May 27; minimum daily, 2.69 ft (0.820 m) Nov. 20, 21, 23, 24. Period of record: Maximum daily gage height, 5.86 ft (1.786 m) May 22, 23, 1954; minimum daily, 0.63 ft (0.192 m) Dec. 11, 1941.

REMARKS.--Lake used for recreation and conservation for development of water power. Usable capacity, 7,220,000,000 ft³ (204,000,000 m³) between elevations 500.65 ft (152.598 m) and 504.32 ft (153.717 m) above mean sea level. Stage regulated at outlet and by Wentworth, Merrymeeting (see p. 70), and other lakes. Contents given herein are computed from gage height at 2400 on last day of month, eliminating the effect of seiche and wind action.

Capacity table (gage height, in feet, and contents, in millions of cubic feet)

2.0	13,880
3.0	15,840
4.0	17,840
5.0	19,850

MEAN GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.21	2.91	2.77	4.27	3.59	2.95	3.47	4.37	4.44	4.28	3.93	3.51
2	3.19	2.91	2.79	4.23	3.55	2.95	3.48	4.38	4.45	4.29	3.92	3.55
3	3.20	2.90	2.79	4.19	3.51	2.95	3.50	4.38	4.41	4.30	3.92	3.58
4	3.21	2.88	2.79	4.15	3.45	2.98	3.53	4.39	4.40	4.31	3.89	3.58
5	3.21	2.88	2.82	4.10	3.38	3.01	3.58	4.39	4.37	4.35	3.88	3.67
6	3.17	2.83	2.90	4.06	3.33	3.03	3.67	4.39	4.36	4.32	3.88	3.68
7	3.15	2.82	2.92	3.99	3.31	3.06	3.71	4.39	4.35	4.31	3.87	3.65
8	3.14	2.82	2.95	3.91	3.28	3.08	3.75	4.38	4.35	4.32	3.86	3.64
9	3.12	2.79	2.99	3.88	3.23	3.10	3.83	4.38	4.34	4.31	3.84	3.63
10	3.10	2.75	3.04	3.85	3.20	3.11	3.83	4.41	4.35	4.29	3.81	3.62
11	3.08	2.75	3.06	3.84	3.15	3.11	3.90	4.45	4.35	4.25	3.79	3.62
12	3.05	2.75	3.08	3.82	3.12	3.11	3.96	4.47	4.31	4.26	3.78	3.60
13	3.03	2.74	3.09	3.80	3.08	3.09	3.95	4.51	4.30	4.23	3.74	3.59
14	2.97	2.72	3.20	3.79	3.03	3.09	3.98	4.53	4.30	4.22	3.72	3.60
15	2.95	2.72	3.29	3.77	2.99	3.09	4.08	4.51	4.32	4.20	3.69	3.59
16	2.93	2.74	3.38	3.77	2.96	3.12	4.12	4.50	4.34	4.19	3.67	3.55
17	2.90	2.71	3.53	3.76	2.92	3.32	4.16	4.48	4.37	4.17	3.66	3.54
18	2.87	2.70	3.67	3.72	2.87	3.40	4.17	4.45	4.39	4.15	3.66	3.52
19	2.88	2.70	3.76	3.69	2.83	3.43	4.19	4.41	4.39	4.12	3.66	3.51
20	2.85	2.69	3.80	3.66	2.84	3.44	4.20	4.37	4.37	4.10	3.64	3.51
21	2.84	2.69	3.93	3.68	2.80	3.50	4.22	4.35	4.37	4.08	3.62	3.55
22	2.83	2.70	4.06	3.67	2.82	3.55	4.24	4.38	4.37	4.07	3.60	3.55
23	2.81	2.69	4.13	3.67	2.91	3.57	4.27	4.40	4.36	4.06	3.58	3.53
24	2.81	2.69	4.12	3.65	2.93	3.57	4.37	4.45	4.36	4.04	3.56	3.51
25	2.80	2.72	4.15	3.63	2.94	3.57	4.40	4.50	4.36	4.01	3.54	3.50
26	2.78	2.72	4.16	3.59	2.96	3.58	4.39	4.53	4.35	4.00	3.53	3.47
27	2.74	2.73	4.26	3.59	2.95	3.55	4.39	4.54	4.33	3.98	3.50	3.47
28	2.74	2.78	4.30	3.60	2.95	3.53	4.38	4.52	4.33	3.98	3.49	3.46
29	2.73	2.78	4.36	3.63	------	3.51	4.38	4.51	4.32	4.00	3.56	3.48
30	2.83	2.80	4.27	3.64	------	3.50	4.38	4.50	4.30	3.99	3.57	3.45
31	2.89	------	4.29	3.62	------	3.50	------	4.49	------	3.96	3.56	------
MEAN	2.97	2.77	3.50	3.81	3.10	3.27	4.01	4.44	4.36	4.17	3.71	3.56
MAX	3.21	2.91	4.36	4.27	3.59	3.58	4.40	4.54	4.45	4.35	3.93	3.68
MIN	2.73	2.69	2.77	3.59	2.80	2.95	3.47	4.35	4.30	3.96	3.49	3.45
(†)	15,650	15,430	18,400	17,040	15,750	16,820	18,560	18,800	18,440	17,740	16,940	16,740
(‡)	-228	-84.9	+1,109	-508	-533	+399	+671	+89.6	-139	-261	-299	-77.2

CAL YR 1973 MEAN 3.46 MAX 5.31 MIN 2.23 (‡) +45.0
WTR YR 1974 MEAN 3.64 MAX 4.54 MIN 2.69 (‡) +15.2

† Contents, in millions of cubic feet, at 2400 on last day of month.
‡ Change in contents, equivalent in cubic feet per second.

01080500 LAKE WINNIPESAUKEE OUTLET AT LAKEPORT, N.H.

LOCATION.--Lat 43°32'57", long 71°27'54", Belknap County, 100 ft (30 m) upstream from highway bridge across Paugus Bay at Lakeport.

DRAINAGE AREA.--363 mi^2 (940 km^2).

PERIOD OF RECORD.--January 1860 to December 1911 (monthly gage heights only, published in WSP 301), June 1933 to current year.

GAGE.--Water-stage recorder, Kesler deflection meter, and measuring flume. Datum of gage is 500.55 ft (152.568 m) above mean sea level, datum of 1929. January 1860 to December 1911, nonrecording gage at site 150 ft (46 m) downstream at same datum. June 1, 1933, to Sept. 30, 1936, nonrecording gage and continuous-recording current meter at present site and datum. Oct. 1, 1936, to May 23, 1944, discharge computed from flow over spillway and through gates and wheels at site 150 ft (46 m) downstream.

AVERAGE DISCHARGE.--41 years, 530 ft^3/s (15.01 m^3/s).

EXTREMES.--Current year: Maximum daily discharge, 2,000 ft^3/s (56.6 m^3/s) Dec. 29; minimum daily, 180 ft^3/s (5.10 m^3/s) Aug. 1.
Period of record: Maximum daily discharge, 2,890 ft^3/s (81.8 m^3/s) Mar. 31, 1936; no flow Sept. 29, 1962.

REMARKS.--Records good. Flow completely regulated by Winnipesaukee (see preceding page), Wentworth, Merrymeeting (see p. 70), and other lakes. Daily discharge computed from relation between discharge, stage, and deflection of vane in measuring flume.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	525	275	275	1,980	1,760	525	860	1,000	980	235	180	240
2	525	275	265	1,960	1,750	505	865	1,000	980	235	225	240
3	515	275	265	1,950	1,740	505	865	1,000	975	235	225	240
4	515	280	275	1,940	1,730	515	870	995	975	235	225	245
5	515	280	275	1,920	1,700	515	730	995	785	235	225	245
6	515	280	270	1,910	1,680	510	450	995	360	235	225	240
7	510	275	270	1,890	1,550	510	455	995	235	235	225	240
8	520	275	280	1,860	1,320	510	455	990	235	235	225	240
9	520	275	280	1,860	1,310	515	460	990	235	235	225	240
10	520	275	280	1,850	1,300	515	460	995	235	235	225	240
11	515	275	285	1,530	1,290	520	460	1,000	235	235	225	240
12	515	280	285	915	1,280	520	455	1,000	235	235	225	240
13	505	275	290	900	1,280	520	450	1,180	235	235	225	240
14	510	270	290	895	1,270	520	455	1,350	235	235	220	240
15	510	270	290	910	1,250	515	455	1,340	235	235	220	240
16	515	270	295	910	1,250	515	595	1,380	235	235	220	240
17	515	270	300	1,060	1,240	525	865	1,380	235	230	220	240
18	430	270	305	1,380	1,230	530	880	1,380	235	230	220	240
19	260	275	475	1,370	1,220	530	715	1,370	235	230	220	240
20	270	275	805	1,360	1,220	530	375	1,140	235	230	220	240
21	275	275	820	1,360	975	535	370	480	235	230	220	240
22	275	275	835	1,370	525	540	370	260	235	230	220	240
23	275	270	840	1,360	530	530	370	260	235	230	220	240
24	275	270	860	1,360	530	530	385	320	240	230	220	240
25	275	270	865	1,330	525	600	590	435	240	230	220	240
26	265	275	980	1,350	525	840	995	715	235	230	215	240
27	275	275	1,220	1,350	525	870	995	990	235	225	215	240
28	280	280	1,460	1,350	525	870	995	985	235	225	240	235
29	275	275	2,000	1,360	------	870	990	985	235	230	240	235
30	275	275	1,980	1,510	------	870	990	985	235	230	240	235
31	275	------	1,980	1,780	------	870	------	985	------	200	240	------
TOTAL	12,745	8,235	26,195	45,830	33,030	18,275	19,225	29,875	10,705	7,170	6,910	7,195
MEAN	411	275	651	1,478	1,180	590	641	964	357	231	223	240
MAX	525	280	2,000	1,980	1,760	870	995	1,380	980	235	240	245
MIN	260	270	265	895	525	505	370	260	235	200	180	235

CAL YR 1973 TOTAL 300,110 MEAN 822 MAX 2,430 MIN 250
WTR YR 1974 TOTAL 219,390 MEAN 601 MAX 2,000 MIN 180

01081000 WINNIPESAUKEE RIVER AT TILTON, N.H.

LOCATION.--Lat 43°26'31", long 71°35'20", Belknap County, on right bank at Tilton and 0.3 mi (0.5 km) upstream from Packer Brook.

DRAINAGE AREA.--471 mi² (1,220 km²).

PERIOD OF RECORD.--January 1937 to current year.

GAGE.--Water-stage recorder. Datum of gage is 441.87 ft (134.682 m) above mean sea level, unadjusted.

AVERAGE DISCHARGE.--37 years, 693 ft³/s (19.63 m³/s).

EXTREMES.--Current year: Maximum discharge, 2,350 ft³/s (66.6 m³/s) Dec. 22 (gage height, 6.27 ft or 1.911 m); minimum daily, 190 ft³/s (5.38 m³/s) Aug. 14-16, 26-28, Sept. 24, 25.
Period of record: Maximum discharge, 3,810 ft³/s (108 m³/s) Sept. 21, 1938 (gage height, 7.90 ft or 2.408 m); maximum gage height, 7.93 ft (2.417 m) Mar. 27, 1953; minimum daily discharge, 48 ft³/s (1.36 m³/s) Aug. 31, 1941.

REMARKS.--Records excellent. Flow regulated by powerplants prior to 1967 and by Winnipesaukee (see sta 01080000), Winnisquam 4.5 mi (7.2 km) upstream, Wentworth, Merrymeeting (see p. 70), and other lakes above station.

REVISIONS (WATER YEARS).--WSP 1901: 1960.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	611	450	348	2,270	2,030	768	1,160	1,290	1,250	257	236	219
2	602	441	340	2,280	2,030	742	1,200	1,340	1,260	258	313	239
3	611	407	329	2,250	2,030	723	1,260	1,410	1,240	266	326	264
4	616	382	321	2,240	2,010	719	1,360	1,540	1,220	265	299	349
5	611	359	325	2,210	1,980	719	1,440	1,500	1,170	299	274	324
6	607	336	366	2,180	1,960	530	1,480	1,430	942	308	254	296
7	589	321	363	2,160	1,960	553	1,330	1,410	624	292	261	287
8	575	307	340	2,140	1,900	629	1,220	1,400	522	279	233	276
9	566	300	355	2,110	1,810	638	1,150	1,370	472	272	398	267
10	575	293	428	2,110	1,730	638	1,060	1,420	418	283	384	262
11	682	282	432	2,120	1,670	647	1,000	1,570	306	275	251	259
12	757	279	411	1,980	1,630	642	984	1,520	277	258	203	254
13	734	279	394	1,740	1,600	642	995	1,700	257	252	191	252
14	693	279	557	1,550	1,570	638	984	1,840	215	250	190	263
15	697	286	715	1,430	1,550	629	1,170	1,790	215	245	190	254
16	738	300	674	1,340	1,520	651	1,230	1,780	224	224	190	241
17	712	303	734	1,270	1,510	1,290	1,260	1,780	283	209	192	232
18	685	296	1,030	1,280	1,500	1,260	1,240	1,770	335	202	197	232
19	647	293	1,040	1,360	1,490	1,040	1,120	1,740	310	206	193	231
20	598	289	1,070	1,420	1,520	942	708	1,710	300	218	191	224
21	553	282	1,500	1,480	1,520	902	674	1,490	299	215	195	215
22	526	289	2,230	1,610	1,430	870	665	928	301	212	197	232
23	535	289	1,860	1,700	1,460	829	669	727	295	202	195	216
24	499	289	1,660	1,710	1,320	845	712	548	286	202	197	190
25	472	314	1,530	1,690	1,150	984	745	634	277	202	194	190
26	437	314	1,520	1,660	1,000	1,170	960	734	280	202	190	191
27	403	293	1,930	1,710	902	1,150	1,040	1,190	271	202	190	204
28	374	325	2,190	1,890	814	1,140	1,090	1,240	266	209	190	207
29	359	366	2,270	1,970	------	1,120	1,130	1,250	261	221	204	218
30	424	363	2,260	1,960	------	1,120	1,170	1,250	261	224	226	227
31	481	------	2,250	1,940	------	1,140	------	1,250	------	226	223	------
TOTAL	17,969	9,606	31,772	56,760	44,596	26,310	32,206	42,551	14,637	7,435	7,167	7,315
MEAN	580	320	1,025	1,831	1,593	849	1,074	1,373	488	240	231	244
MAX	757	450	2,270	2,280	2,030	1,290	1,480	1,840	1,260	308	398	349
MIN	359	279	321	1,270	814	530	665	548	215	202	190	190

CAL YR 1973 TOTAL 401,229 MEAN 1,099 MAX 2,860 MIN 238
WTR YR 1974 TOTAL 298,324 MEAN 817 MAX 2,280 MIN 190

MERRIMACK RIVER BASIN

01081500 MERRIMACK RIVER AT FRANKLIN JUNCTION, N.H.

LOCATION.--Lat 43°25'26", long 71°39'12", Merrimack County, on right bank at Franklin Junction, 1 mi (1.6 km) downstream from confluence of Pemigewasset and Winnipesaukee Rivers.

DRAINAGE AREA.--1,507 mi^2 (3,903 km^2).

PERIOD OF RECORD.--July 1903 to January 1904, March 1904 to January 1905, March 1905 to current year.

GAGE.--Water-stage recorder. Datum of gage is 250.4 ft (76.32 m) above mean sea level, unadjusted. Prior to Sept. 13, 1923, nonrecording gage at bridge 350 ft (100 m) downstream at same datum.

AVERAGE DISCHARGE.--69 years (1905-74) 2,755 ft^3/s (78.02 m^3/s), 24.83 in/yr (631 mm/yr).

EXTREMES.--Current year: Maximum discharge, 21,500 ft^3/s (609 m^3/s) Dec. 22 (gage height, 15.85 ft or 4.831 m); minimum daily, 610 ft^3/s (17.3 m^3/s) Aug. 25.

Period of record: Maximum discharge, 83,000 ft^3/s (2,350 m^3/s) Mar. 19, 1936 (gage height, 36.4 ft or 11.09 m, from floodmarks), from rating curve extended above 30,000 ft^3/s (850 m^3/s) on basis of slope-area measurement and computation of flow over dam at gage height 29.5 ft (8.99 m) and velocity-area study; minimum daily, 169 ft^3/s (4.79 m^3/s) Aug. 28, 1965. Maximum discharge since construction of Franklin Falls Reservoir in 1942, 22,400 ft^3/s (634 m^3/s) Apr. 4, 1951 (gage height, 16.34 ft or 4.980 m).

REMARKS.--Records good. Flow regulated by powerplants, by Franklin Falls Reservoir (4 mi or 6 km upstream) since 1942, and by Squam, Little Squam, Newfound, Winnipesaukee, Winnisquam, Wentworth, Merrymeeting, and other lakes. See page 70 for description and month-end contents of many of these reservoirs.

REVISIONS (WATER YEARS).--WSP 401: 1914. WSP 641: 1923(M). WSP 756: Drainage area. WSP 781: 1928(M). WSP 1231: 1911-13, 1916-17(M), 1919(M), 1922(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,250	3,180	2,690	6,410	4,720	2,300	2,670	7,860	4,350	1,860	987	1,200
2	1,120	4,020	2,450	6,270	4,420	2,180	3,720	9,020	5,040	1,670	1,080	1,130
3	1,150	3,850	1,990	5,420	4,020	2,080	3,850	6,770	4,620	1,460	1,060	1,660
4	1,130	2,620	1,530	5,230	3,660	2,070	4,990	6,370	3,820	1,460	1,060	2,700
5	1,530	2,040	1,650	5,120	3,550	2,500	8,230	6,410	3,330	1,470	1,520	2,870
6	1,820	1,830	3,910	4,670	3,500	3,700	13,400	5,500	2,820	2,280	2,190	2,590
7	2,320	1,650	4,940	4,570	3,410	4,980	11,600	4,350	2,380	2,080	1,430	2,420
8	1,360	1,470	3,410	4,450	3,080	6,040	8,230	4,850	2,160	1,790	1,200	2,130
9	1,380	1,320	2,540	4,040	3,200	5,540	6,980	4,860	2,060	1,600	1,200	1,820
10	1,350	1,270	3,910	4,010	3,230	3,670	5,730	4,820	1,830	1,550	857	1,030
11	1,560	1,230	4,660	3,940	2,990	3,250	5,060	6,330	1,780	1,430	692	1,040
12	1,340	1,210	3,330	3,880	2,690	2,800	4,920	7,440	1,580	1,240	805	1,070
13	1,400	1,090	2,810	3,350	2,640	2,510	4,890	8,460	1,540	1,180	739	1,040
14	1,290	1,070	3,820	3,150	2,720	2,280	4,850	11,000	1,460	1,070	722	1,050
15	1,240	1,140	9,110	3,070	2,720	1,900	8,750	8,680	1,160	1,080	690	1,310
16	1,400	1,620	7,380	2,930	2,370	2,430	12,900	6,630	1,260	995	685	1,090
17	1,420	3,290	5,450	2,750	2,350	5,720	10,600	5,040	1,660	963	673	1,080
18	1,320	2,460	8,080	2,800	2,340	7,990	9,060	6,710	2,870	1,040	717	1,010
19	1,160	1,970	7,690	2,820	2,370	5,520	8,980	5,670	2,890	894	708	1,050
20	1,230	1,570	4,570	2,750	2,610	4,260	7,930	4,600	2,060	1,070	1,000	973
21	1,180	1,450	7,960	2,870	2,520	3,630	6,050	3,920	1,790	1,560	933	879
22	1,140	1,290	19,700	3,300	2,600	3,370	6,440	3,180	1,850	873	830	2,310
23	1,140	1,420	17,800	4,020	3,060	3,060	9,160	3,240	1,590	926	820	2,790
24	1,020	1,380	18,600	4,070	3,710	3,130	11,800	5,650	1,520	931	642	1,810
25	1,080	1,240	14,600	3,960	3,740	3,350	11,400	6,710	1,460	925	610	1,600
26	1,020	2,250	8,930	3,910	3,240	3,650	8,120	6,340	1,370	921	698	1,090
27	953	2,000	9,410	3,970	2,670	3,270	6,510	7,320	1,430	856	687	1,190
28	963	2,280	12,000	4,760	2,440	3,040	5,740	6,430	1,830	854	768	1,240
29	1,010	3,970	10,700	5,590	------	3,170	5,620	5,350	1,750	883	1,140	1,300
30	1,600	4,050	9,070	4,810	------	3,420	7,290	5,080	1,620	1,030	1,190	3,390
31	3,850	------	7,780	4,740	------	2,600	------	4,760	------	1,030	1,140	------
TOTAL	42,726	61,230	222,470	127,630	86,570	109,410	225,470	189,350	66,880	38,971	29,473	47,862
MEAN	1,378	2,041	7,176	4,117	3,092	3,529	7,516	6,108	2,229	1,257	951	1,595
MAX	3,850	4,050	19,700	6,410	4,720	7,990	13,400	11,000	5,040	2,280	2,190	3,390
MIN	953	1,070	1,530	2,750	2,340	1,900	2,670	3,180	1,160	854	610	879
CFSM	.91	1.35	4.76	2.73	2.05	2.34	4.99	4.05	1.48	.83	.63	1.06
IN.	1.05	1.51	5.49	3.15	2.14	2.70	5.57	4.67	1.65	.96	.73	1.18

CAL YR 1973 TOTAL 1,622,058 MEAN 4,444 MAX 19,700 MIN 621 CFSM 2.95 IN 40.04
WTR YR 1974 TOTAL 1,248,042 MEAN 3,419 MAX 19,700 MIN 610 CFSM 2.27 IN 30.81

NOTE.--Discharge in cubic feet per second per square mile and runoff in inches may not represent natural flow because of regulation.

01082000 CONTOOCOOK RIVER AT PETERBOROUGH, N.H.

LOCATION.--Lat 42°51'45", long 71°57'35", Hillsborough County, on left bank 1,100 ft (350 m) downsteam from milldam, 1 mi (1.6 km) south of Peterborough, and 1.5 mi (2.4 km) upstream from Nubanusit Brook.

DRAINAGE AREA.--68.1 mi^2 (176.4 km^2).

PERIOD OF RECORD.--July 1945 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 740 ft (226 m) from topographic map.

AVERAGE DISCHARGE.--29 years, 116 ft^3/s (3.285 m^3/s), 23.13 in/yr (588 mm/yr).

EXTREMES.--Current year: Maximum discharge, 2,170 ft^3/s (61.5 m^3/s) Dec. 21 (gage height, 5.81 ft or 1.771 m); minimum daily, 5.1 ft^3/s (0.14 m^3/s) Aug. 28.

Period of record: Maximum discharge, 2,640 ft^3/s (74.8 m^3/s) Nov. 26, 1950 (gage height, 6.35 ft or 1.935 m), from rating curve extended above 1,700 ft^3/s (48.1 m^3/s); minimum daily, 0.8 ft^3/s (0.023 m^3/s) Sept. 15, 16, 1953.

Flood in September 1938 reached a stage of about 15 ft (4.6 m), from information by local residents.

REMARKS.--Records good except those for winter period, which are fair. Flow slightly regulated by mill and reservoirs above station; regulation greater prior to 1965.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17	130	71	310	286	124	191	188	138	36	16	26
2	17	78	56	256	227	121	232	164	144	32	14	31
3	19	69	50	215	190	113	286	149	124	33	15	44
4	21	54	48	188	160	124	405	140	106	33	16	136
5	20	41	66	160	150	172	443	124	90	33	23	86
6	20	42	157	150	140	180	423	113	80	46	20	59
7	19	35	124	130	130	166	338	111	69	44	17	61
8	17	35	94	120	120	156	263	104	62	75	15	56
9	16	33	102	110	115	140	235	97	57	61	14	45
10	16	30	218	100	110	129	212	202	52	42	13	37
11	16	28	176	100	105	114	202	232	47	31	12	32
12	16	28	138	98	100	108	224	210	42	25	11	29
13	16	28	113	97	96	99	247	342	41	22	11	27
14	15	29	166	100	93	87	250	282	38	20	10	50
15	15	27	227	98	90	83	575	221	35	19	9.6	40
16	14	29	174	90	86	99	475	178	37	18	9.2	34
17	14	28	204	86	81	509	331	169	81	17	9.6	28
18	14	27	240	82	80	408	244	149	89	16	11	27
19	14	27	175	80	80	303	204	130	68	16	10	24
20	15	26	149	78	90	230	176	115	57	21	10	24
21	15	24	1.110	90	112	238	157	102	53	19	10	39
22	15	27	1.480	110	180	300	144	92	58	17	7.8	65
23	14	28	906	130	397	250	164	115	50	16	7.5	51
24	14	28	560	150	308	253	188	144	44	15	11	39
25	14	34	380	170	226	247	174	178	40	15	10	34
26	14	38	335	151	177	207	153	164	46	24	9.6	32
27	13	40	670	275	145	178	136	162	46	15	6.3	28
28	14	68	740	427	130	157	124	144	44	14	5.1	27
29	15	•120	615	475	------	136	104	134	41	17	13	81
30	186	94	475	405	------	126	128	128	38	17	35	83
31	183	------	370	321	------	160	------	118	------	16	36	------
TOTAL	828	1.325	10.389	5.352	4.204	5.717	7.428	4.901	1.917	825	417.7	1.375
MEAN	26.7	44.2	335	173	150	184	248	158	63.9	26.6	13.5	45.8
MAX	186	130	1.480	475	397	509	575	342	144	75	36	136
MIN	13	24	48	78	80	83	104	92	35	14	5.1	24
CFSM	.39	.65	4.92	2.54	2.20	2.70	3.64	2.32	.94	.39	.20	.67
IN.	.45	.72	5.68	2.92	2.30	3.12	4.06	2.68	1.05	.45	.23	.75

CAL YR 1973 TOTAL 59.174.0 MEAN 162 MAX 1.480 MIN 13 CFSM 2.38 IN 32.32
WTR YR 1974 TOTAL 44.678.7 MEAN 122 MAX 1.480 MIN 5.1 CFSM 1.79 IN 24.41

PEAK DISCHARGE (BASE, 700 ft^3/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-21	1700	5.81	2,170				
12-28	0830	3.82	800				

01083000 NUBANUSIT BROOK NEAR PETERBOROUGH, N.H.

LOCATION.--Lat 42°53'10", long 71°58'24", Hillsborough County, on left bank 1.2 mi (1.9 km) downstream from Edward MacDowell Reservoir, 1.3 mi (2.1 km) northwest of Peterborough, and 1.5 mi (2.4 km) upstream from mouth.

DRAINAGE AREA.--46.9 mi² (121.5 km²).

PERIOD OF RECORD.--October 1920 to September 1931, July 1945 to current year. Monthly discharge only October 1920, published in WSP 1301.

GAGE.--Water-stage recorder. Altitude of gage is 790 ft (241 m) from topographic map. Prior to Oct. 1, 1931, at site 550 ft (170 m) downstream at different datum.

AVERAGE DISCHARGE.--40 years, 82.4 ft³/s (2.334 m³/s), 23.86 in/yr (606 mm/yr).

EXTREMES.--Current year: Maximum discharge, 502 ft³/s (14.2 m³/s) Jan. 5 (gage height, 3.79 ft or 1.155 m); minimum daily, 4.6 ft³/s (0.13 m³/s) Aug. 19.

Period of record: Maximum discharge, 1,130 ft³/s (32.0 m³/s) Apr. 11, 1931 (gage height, 5.59 ft or 1.704 m, site and datum then in use), from rating curve extended above 380 ft³/s (10.8 m³/s); minimum daily, 0.5 ft³/s (0.014 m³/s) Aug. 1, 1926. Maximum discharge since construction of Edward MacDowell Reservoir in 1950, 699 ft³/s (19.8 m³/s) Apr. 12, 1960 (gage height, 4.54 ft or 1.384 m).

REMARKS.--Records good except those for winter period, which are fair. Flow regulated by mills and Nubanusit Lake, Edward MacDowell Reservoir since 1950 (see p. 70), and other reservoirs above station.

REVISIONS (WATER YEARS).--WSP 561: 1921(M). WSP 1051: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	134	16	253	206	119	127	112	98	47	9.4	27
2	17	93	16	273	212	158	148	122	107	42	9.4	29
3	37	78	19	286	206	126	216	126	88	17	9.4	33
4	63	49	22	366	199	82	268	137	71	17	9.4	59
5	78	31	42	491	190	122	305	133	58	18	9.4	93
6	75	23	117	477	183	154	338	120	57	18	9.4	111
7	67	16	135	305	188	151	330	118	44	19	9.4	117
8	37	16	114	90	183	148	323	99	37	20	9.2	75
9	22	15	83	33	137	142	188	88	37	18	19	30
10	24	13	170	21	80	92	217	90	36	18	27	21
11	19	15	162	75	50	75	168	117	33	17	26	21
12	16	14	88	127	50	74	112	145	30	17	26	21
13	17	14	67	125	50	73	126	212	24	17	25	17
14	17	14	72	122	63	73	188	290	24	17	18	15
15	17	13	94	40	60	72	301	226	22	17	13	14
16	17	13	142	48	40	57	305	146	19	17	11	14
17	17	13	185	105	31	75	280	127	20	17	8.5	14
18	18	13	170	110	31	87	273	125	34	14	5.7	14
19	22	13	115	61	50	120	254	105	47	9.5	4.6	14
20	28	13	88	115	64	294	226	78	47	9.0	5.2	15
21	34	13	120	68	63	365	197	68	47	8.7	6.3	19
22	37	13	100	71	83	315	170	52	46	8.7	6.4	43
23	36	13	208	86	134	291	142	54	46	8.7	6.9	51
24	36	13	239	73	160	267	116	73	45	8.7	6.9	50
25	36	13	243	73	100	190	128	123	32	8.7	6.7	49
26	34	13	248	116	100	151	135	129	22	8.7	6.7	48
27	33	14	233	127	99	122	133	127	22	8.7	7.5	47
28	23	17	287	145	99	111	128	123	19	8.7	11	31
29	16	16	259	174	------	109	113	95	21	9.6	20	26
30	34	16	261	174	------	95	92	79	38	9.9	28	40
31	110	------	260	202	------	92	------	79	------	9.6	27	------
TOTAL	1,048	744	4,375	4,832	3,111	4,402	6,047	3,718	1,271	484.2	397.4	1,158
MEAN	33.8	24.8	141	156	111	142	202	120	42.4	15.6	12.8	38.6
MAX	110	134	287	491	212	365	338	290	107	47	28	117
MIN	11	13	16	21	31	57	92	52	19	8.7	4.6	14
CFSM	.72	.53	3.01	3.33	2.37	3.03	4.31	2.56	.90	.33	.27	.82
IN.	.83	.59	3.47	3.83	2.47	3.49	4.80	2.95	1.01	.38	.32	.92

CAL YR 1973 TOTAL 41,847.0 MEAN 115 MAX 533 MIN 11 CFSM 2.45 IN 33.19
WTR YR 1974 TOTAL 31,587.6 MEAN 86.5 MAX 491 MIN 4.6 CFSM 1.84 IN 25.05

NOTE.--Discharge in cubic feet per second per square mile and runoff in inches may not represent natural flow because of regulation.

01085000 CONTOOCOOK RIVER NEAR HENNIKER, N.H.

LOCATION.--Lat 43°09'10", long 71°51'24", Merrimack County, on right bank 1.6 mi (2.6 km) downstream from Sand Brook and 2.5 mi (4.0 km) southwest of Henniker.

DRAINAGE AREA.--368 mi^2 (953 km^2).

PERIOD OF RECORD.--October 1939 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 475 ft (145 m) from topographic map. Prior to Dec. 18, 1939, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--35 years, 627 ft^3/s (17.76 m^3/s), 23.14 in/yr (588 mm/yr).

EXTREMES.--Current year: Maximum discharge, 7,210 ft^3/s (204 m^3/s) Dec. 22 (gage height, 11.82 ft or 3.603 m); minimum daily, 44 ft^3/s (1.25 m^3/s) Aug. 26-28.

Period of record: Maximum discharge, 9,460 ft^3/s (268 m^3/s) June 26, 1944 (gage height, 13.13 ft or 4.002 m); minimum daily, 19 ft^3/s (0.54 m^3/s) Oct. 29, 1940, July 17, 1965.

Maximum discharge since at least 1768, 22,200 ft^3/s (629 m^3/s) Sept. 21, 1938 (gage height, 21.3 ft or 6.49 m, from floodmarks), from rating curve extended above 7,500 ft^3/s (212 m^3/s) on basis of computations of flow over dams at gage heights 12.72 and 21.3 ft (3.877 and 6.49 m).

REMARKS.--Records good except those for winter period, which are fair. Flow regulated by powerplants and by Nubanusit Lake, Edward MacDowell Reservoir (see p. 70) since March 1950, Highland Lake, Lake Franklin Pierce, and other reservoirs above station.

REVISIONS (WATER YEARS).--WSP 1701: 1944(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	92	760	518	1,880	1,660	695	881	971	708	288	63	56
2	88	690	406	1,500	1,430	735	1,120	1,200	720	194	61	55
3	92	550	351	1,300	1,100	730	1,400	1,070	692	125	58	69
4	94	430	410	1,150	1,000	715	1,950	1,070	612	155	57	288
5	116	348	418	1,000	920	946	2,650	1,020	530	160	60	502
6	156	333	657	870	850	1,300	3,050	905	458	186	58	402
7	164	348	831	780	800	1,300	2,540	841	410	158	53	354
8	160	330	810	680	740	1,300	2,160	798	378	151	52	372
9	146	303	675	660	700	1,120	1,870	720	354	151	52	321
10	124	276	1,010	630	660	970	1,580	796	336	172	51	245
11	112	258	1,180	610	630	836	1,380	1,400	318	192	50	190
12	94	245	1,050	590	600	740	1,420	1,430	300	174	50	149
13	91	238	847	580	570	653	1,480	1,870	276	151	50	135
14	84	233	898	620	550	606	1,530	2,050	160	127	50	137
15	85	225	1,400	600	530	586	2,620	1,810	107	122	49	137
16	83	238	1,300	570	510	586	3,060	1,460	110	134	48	135
17	81	258	1,160	540	490	1,630	2,680	1,200	218	107	48	121
18	80	253	1,330	500	480	2,290	2,120	1,090	265	87	54	118
19	81	238	1,150	490	460	1,930	1,720	927	212	83	52	110
20	84	225	1,050	500	450	1,400	1,450	788	291	81	48	106
21	92	216	1,900	600	470	1,260	1,270	670	288	77	47	113
22	100	212	6,210	750	538	1,390	1,100	593	270	74	47	162
23	107	214	6,130	900	1,100	1,400	999	534	258	72	47	210
24	109	210	3,620	1,000	1,420	1,350	1,010	620	250	69	48	206
25	109	216	2,380	960	1,270	1,380	1,140	904	240	67	47	186
26	109	225	2,020	952	976	1,220	1,070	1,250	282	65	44	168
27	110	248	2,600	994	800	1,030	930	1,200	324	63	44	160
28	107	291	3,480	1,750	715	885	828	1,050	321	62	44	147
29	107	510	3,630	2,240	------	765	756	920	282	63	49	172
30	303	594	2,960	2,220	------	710	687	857	265	68	59	253
31	765	------	2,320	1,870	------	718	------	770	------	66	60	------
TOTAL	4,125	9,715	54,701	30,286	22,419	33,176	48,451	32,784	10,235	3,744	1,600	5,779
MEAN	133	324	1,765	977	801	1,070	1,615	1,058	341	121	51.6	193
MAX	765	760	6,210	2,240	1,660	2,290	3,060	2,050	720	288	63	502
MIN	80	210	351	490	450	586	687	534	107	62	44	55
CFSM	.36	.88	4.80	2.65	2.18	2.91	4.39	2.88	.93	.33	.14	.52
IN.	.42	.98	5.53	3.06	2.27	3.35	4.90	3.31	1.03	.38	.16	.58

CAL YR 1973 TOTAL 345,392 MEAN 946 MAX 6,210 MIN 76 CFSM 2.57 IN 34.91
WTR YR 1974 TOTAL 257,015 MEAN 704 MAX 6,210 MIN 44 CFSM 1.91 IN 25.98

NOTE.--Discharge in cubic feet per second per square mile and runoff in inches may not represent natural flow because of regulation.

01085500 CONTOOCOOK RIVER BELOW HOPKINTON DAM, AT WEST HOPKINTON, N.H.

LOCATION.--Lat 43°11'31", long 71°44'51", Merrimack County, on right bank 400 ft (100 m) downstream from covered bridge at West Hopkinton, 0.2 mi (0.3 km) downstream from Hopkinton Dam, and 5.9 mi (9.5 km) upstream from Warner River.

DRAINAGE AREA.--427 mi² (1,106 km²).

PERIOD OF RECORD.--August 1903 to April 1907 (no winter records), August 1963 to current year. [illegible] ished as "at West Hopkinton" 1903-7.

GAGE.--Water-stage recorder. Altitude of gage is 355 ft (108 m) from topographic map. August 1903 to April 1907, nonrecording gage at site 400 ft (100 m) upstream at different datum.

AVERAGE DISCHARGE.--11 years (1963-74), 678 ft³/s (19.20 m³/s), 21.56 in/yr (548 mm/yr), adjusted for storage and diversion.

EXTREMES.--Current year: Maximum discharge, 5,160 ft³/s (146 m³/s) Dec. 24 (gage height, 8.54 ft or 2.603 m); minimum daily, 25 ft³/s (0.71 m³/s) Aug. 24.

Period of record: Maximum discharge, 5,260 ft³/s (149 m³/s) Apr. 24, 1969 (gage height, 8.66 ft or 2.640 m); minimum daily, 15 ft³/s (0.42 m³/s) July 22, 1965.

REMARKS.-Records good except those for winter period, which are fair. Flow regulated by powerplants and by Nubanusit Lake, Edward Macdowell Reservoir since 1950, Highland Lake, Lake Franklin Pierce, Hopkinton Lake since 1962 (see p. 70), and other reservoirs above station. Diversion from Hopkinton Lake to Everett Lake on Piscataquog River during periods of high flow in March 1968 and April 1969.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	158	808	520	2,080	1,790	754	962	975	820	318	80	53
2	77	784	409	1,820	1,690	772	1,160	1,250	800	279	102	66
3	107	586	351	1,500	1,370	772	1,490	1,160	790	182	44	127
4	119	463	367	1,300	1,170	652	1,910	1,130	658	165	53	291
5	113	382	409	1,150	1,110	850	2,540	1,110	610	196	107	550
6	178	314	640	1,000	988	1,300	2,890	995	532	229	113	500
7	199	327	814	900	898	1,560	2,750	923	468	206	73	400
8	196	309	844	800	844	1,450	2,400	880	430	168	48	450
9	206	300	712	720	808	1,240	2,020	772	419	185	87	350
10	127	295	1,020	680	778	1,070	1,740	898	387	185	75	280
11	107	210	1,280	660	676	930	1,450	1,440	367	214	42	200
12	122	240	1,140	640	652	796	1,550	1,530	347	202	110	180
13	94	217	880	620	598	724	1,610	1,960	337	175	97	160
14	92	229	982	600	562	670	1,650	2,090	295	155	49	160
15	100	192	1,480	630	532	628	2,420	1,810	110	171	42	155
16	110	257	1,440	620	514	628	3,020	1,580	199	155	92	150
17	100	158	1,350	580	474	1,590	2,940	1,240	269	133	29	140
18	90	233	1,490	550	457	2,410	2,310	1,160	403	116	49	140
19	100	206	1,440	530	457	2,160	1,920	1,010	314	102	122	130
20	105	202	1,280	520	457	1,580	1,520	844	323	58	77	125
21	92	196	1,630	600	496	1,370	1,420	712	357	82	34	130
22	110	161	3,630	800	550	1,440	1,190	682	337	130	80	170
23	100	195	4,500	900	1,030	1,460	1,120	628	327	97	69	220
24	115	214	4,860	1,100	1,690	1,440	1,080	670	314	66	25	250
25	125	206	4,740	1,050	1,510	1,460	1,170	962	300	82	53	220
26	120	217	3,210	1,000	1,110	1,370	1,180	1,390	300	64	94	200
27	100	229	2,910	1,000	886	1,140	1,030	1,280	357	60	55	180
28	85	327	3,560	1,800	754	1,010	917	1,150	362	57	42	170
29	150	414	3,740	2,380	------	862	850	962	323	70	92	210
30	350	574	3,360	2,430	------	826	772	930	304	100	37	300
31	754	------	2,540	2,220	------	814	------	900	------	90	69	------
TOTAL	4,601	9,445	57,528	33,180	24,851	35,728	50,981	35,023	12,159	4,492	2,141	6,657
MEAN	148	315	1,856	1,070	888	1,153	1,699	1,130	405	145	69.1	222
MAX	754	808	4,860	2,430	1,790	2,410	3,020	2,090	820	318	122	550
MIN	77	158	351	520	457	628	772	628	110	57	25	53
MEAN†	151	317	1,863	1,080	874	1,151	1,698	1,130	403	141	68.8	226
CFSM†	.35	.74	4.36	2.53	2.05	2.70	3.98	2.65	.94	.33	.16	.53
IN.†	.41	.83	5.04	2.92	2.13	3.11	4.44	3.05	1.05	.38	.19	.59

CAL YR 1973 TOTAL 391,064 MEAN 1,071 MAX 4,860 MIN 60 MEAN† 1,072 CFSM† 2.51 IN† 34.11
WTR YR 1974 TOTAL 276,786 MEAN 758 MAX 4,860 MIN 25 MEAN† 759 CFSM† 1.78 IN† 24.15

† Adjusted for change in contents in Hopkinton Lake.

NOTE.--Discharge in cubic feet per second per square mile and runoff in inches may not represent natural flow because of regulation.

01085800 WEST BRANCH WARNER RIVER NEAR BRADFORD, N.H.

LOCATION.--Lat 43°15'33", long 72°01'35", Merrimack County, on left bank 75 ft (23 m) downstream from small, right-bank tributary, 200 ft (60 m) upstream from highway bridge, and 3.5 mi (5.6 km) west of Bradford.

DRAINAGE AREA.--5.75 mi² (14.89 km²).

PERIOD OF RECORD.--May 1962 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 950 ft (290 m) from topographic map.

AVERAGE DISCHARGE.--12 years, 10.9 ft³/s (0.309 m³/s) 25.74 in/yr (654 mm/yr).

EXTREMES.--Current year: Maximum discharge, about 480 ft³/s (13.6 m³/s) Dec. 21; maximum gage height, 8.08 ft or 2.463 m Dec. 21 (backwater from ice); minimum discharge, 0.31 ft³/s (0.009 m³/s) Aug. 13-17.
Period of record: Maximum discharge, 555 ft³/s (15.7 m³/s) June 30, 1973 (gage height, 8.30 ft or 2.530 m), from rating curve extended above 130 ft³/s (3.68 m³/s); minimum, about 0.06 ft³/s (0.002 m³/s) about Sept. 20, 1964.

REMARKS.--Records good except those for winter period and period of no gage-height record, which are fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.79	9.9	10	23	25	8.2	13	57	12	2.6	.74	.87
2	.75	9.6	7.0	19	20	9.3	16	23	11	2.3	.66	1.8
3	.79	5.9	5.0	15	17	7.5	39	18	8.6	4.2	.66	6.6
4	.82	4.0	4.0	13	14	16	107	24	7.4	3.2	.58	22
5	.90	3.2	3.0	10	12	76	154	16	6.2	3.7	.58	5.0
6	1.0	2.8	29	8.0	10	44	54	14	5.0	6.8	.58	2.2
7	1.0	5.9	14	6.5	8.5	41	29	15	4.6	3.6	.51	1.9
8	1.0	3.3	9.4	5.5	7.5	31	27	13	4.0	3.1	.45	1.7
9	1.0	2.7	42	4.5	6.5	18	19	11	3.6	2.5	.45	1.1
10	.92	2.4	40	4.0	6.0	13	18	48	3.3	2.0	.45	.91
11	.91	2.1	19	3.5	5.2	9.0	19	38	2.9	1.7	.45	.78
12	.91	1.9	12	2.5	4.8	8.0	23	27	2.8	1.5	.40	.66
13	.91	1.7	9.1	2.0	4.4	6.0	27	96	2.6	1.4	.32	.70
14	.91	1.5	54	3.2	4.0	6.2	51	31	2.3	1.1	.31	3.3
15	.91	1.4	36	3.5	3.7	6.3	152	22	2.2	1.3	.31	1.8
16	.91	1.3	17	4.5	3.4	6.3	41	22	2.8	1.6	.31	.96
17	.91	3.4	27	4.0	3.1	73	26	22	19	1.1	.37	.54
18	.84	2.9	20	3.5	2.8	28	22	19	9.8	.96	.77	.39
19	.93	2.5	10	3.2	2.5	15	19	11	4.9	1.1	.51	.45
20	1.1	2.2	8.0	3.0	2.8	12	16	9.8	3.6	2.2	.45	.36
21	1.1	1.6	200	2.8	3.5	9.1	16	8.8	3.2	1.3	.39	1.4
22	1.1	1.5	80	10	9.2	9.0	14	8.0	3.2	1.0	.39	6.4
23	1.1	2.3	30	25	43	7.9	15	12	2.7	.96	.39	2.1
24	1.1	2.0	17	20	15	14	28	19	2.5	.96	.39	1.3
25	1.0	1.8	12	15	11	10	22	32	2.4	.91	.39	.96
26	1.0	2.2	18	10	9.2	9.0	17	32	6.2	.82	.39	.96
27	1.0	3.0	35	15	7.0	8.0	15	24	6.2	.82	.39	.96
28	1.2	5.0	70	40	6.7	7.0	13	17	4.4	.78	.39	.78
29	.96	10	60	70	------	6.0	12	14	3.4	.82	.64	5.8
30	37	14	45	45	------	6.0	11	15	3.3	.86	2.3	9.3
31	11	------	30	30	------	7.2	------	13	------	.86	1.3	------
TOTAL	75.77	114.0	972.5	424.2	267.8	527.0	1,035	731.6	156.1	58.05	17.22	83.98
MEAN	2.44	3.80	31.4	13.7	9.56	17.0	34.5	23.6	5.20	1.87	.56	2.80
MAX	37	14	200	70	43	76	154	96	19	6.8	2.3	22
MIN	.75	1.3	3.0	2.0	2.5	6.0	11	8.0	2.2	.78	.31	.36
CFSM	.42	.66	5.46	2.38	1.66	2.96	6.00	4.10	.90	.33	.10	.49
IN.	.49	.74	6.29	2.74	1.73	3.41	6.70	4.73	1.01	.38	.11	.54

CAL YR 1973 TOTAL 6,563.79 MEAN 18.0 MAX 316 MIN .36 CFSM 3.13 IN 42.46
WTR YR 1974 TOTAL 4,463.22 MEAN 12.2 MAX 200 MIN .31 CFSM 2.12 IN 28.88

NOTE.-No gage-height record Nov. 11 to Dec. 5, Dec. 22 to Jan. 14, Jan. 18 to Feb. 20.

PEAK DISCHARGE (BASE, 110 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10-30	1015	5.96	130	3-17	0515	6.30	176
12-14	1615	5.89	122	4-5	1715	6.50	205
12-21	-	-	*480	4-15	0130	7.67	414
12-28	-	-	*140	5-10	1645	5.85	117
3-5	1630	5.79	110	5-13	0200	6.76	246

* About.

01086000 WARNER RIVER AT DAVISVILLE, N.H.

LOCATION.--Lat 43°15'06", long 71°43'54", Merrimack County, on left bank 60 ft (18 m) downstream from bridge on State Highway 127 at Davisville, 2.2 mi (3.5 km) northwest of Contoocook, and 2.4 mi (3.9 km) upstream from mouth.

DRAINAGE AREA.--146 mi² (378 km²).

PERIOD OF RECORD.--October 1939 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 380 ft (116 m) from topographic map. Prior to Dec. 22, 1939, chain gage at bridge 60 ft (18 m) upstream at same datum.

AVERAGE DISCHARGE.--35 years, 234 ft³/s (6.627 m³/s), 21.77 in/yr (553 mm/yr).

EXTREMES.--Current year: Maximum discharge, 2,790 ft³/s (79.0 m³/s) Dec. 22 (gage height, 8.43 ft or 2.569 m); minimum, 7.0 ft³/s (0.20 m³/s) Aug. 23.

Period of record: Maximum discharge, 4,510 ft³/s (128 m³/s) Mar. 27, 1953 (gage height, 9.88 ft or 3.011 m); minimum, 2.6 ft³/s (0.074 m³/s) Aug. 17, 18, 1965.

Flood of September 1938 reached a stage of 12.8 ft, from information by local residents.

REMARKS.--Records good. Prior to 1948, slight diurnal fluctuation at low flow caused by mill above station.

REVISIONS (WATER YEARS).--WSP 1901: 1960.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	160	137	680	580	235	301	424	331	69	17	17
2	19	148	124	592	480	262	380	512	310	63	16	19
3	19	120	110	525	400	241	468	452	274	66	15	30
4	19	96	96	420	350	241	705	452	241	69	25	173
5	22	83	91	380	300	392	998	444	208	65	22	193
6	27	72	203	310	250	596	1,250	400	183	76	17	126
7	26	64	214	280	220	604	1,050	384	170	77	15	92
8	23	59	183	240	210	628	862	376	145	83	13	74
9	22	55	170	220	200	572	740	337	132	71	14	58
10	21	49	349	210	190	488	648	368	124	60	12	45
11	20	45	353	200	180	390	576	644	106	51	12	38
12	18	42	289	200	170	356	592	608	94	44	11	34
13	18	41	236	190	170	300	624	785	83	39	11	31
14	17	41	295	200	160	280	668	840	73	36	10	41
15	16	40	701	217	155	265	1,300	688	66	32	9.8	48
16	15	42	560	214	145	250	1,300	580	66	30	9.3	42
17	15	47	400	193	143	730	1,010	500	183	28	8.5	35
18	16	48	520	170	136	977	810	452	235	27	8.8	31
19	16	46	490	175	126	692	684	388	183	26	8.3	29
20	16	44	420	168	136	560	596	328	140	28	8.0	27
21	17	41	600	168	148	464	524	289	116	29	7.8	27
22	22	43	2,540	280	180	440	476	265	98	24	7.5	53
23	29	46	1,630	372	380	412	444	256	81	22	7.5	66
24	26	45	1,000	380	412	420	432	295	71	22	9.0	57
25	24	48	750	364	348	448	448	440	63	22	9.3	46
26	23	50	672	322	292	404	428	536	83	19	8.3	41
27	22	50	991	334	250	360	388	572	97	18	7.8	38
28	21	77	1,440	636	232	325	352	504	89	18	8.0	36
29	21	139	1,350	795	------	286	325	436	80	19	9.0	43
30	86	151	1,050	765	------	274	307	396	78	19	13	76
31	188	------	810	660	------	268	------	360	------	18	16	------
TOTAL	865	2,032	18,774	10,860	6,943	13,160	19,686	14,311	4,203	1,270	365.9	1,666
MEAN	27.9	67.7	606	350	248	425	656	462	140	41.0	11.8	55.5
MAX	188	160	2,540	795	580	977	1,300	840	331	83	25	193
MIN	15	40	91	168	126	235	301	256	63	18	7.5	17
CFSM	.19	.46	4.15	2.40	1.70	2.91	4.49	3.16	.96	.28	.08	.38
IN.	.22	.52	4.78	2.77	1.77	3.35	5.02	3.65	1.07	.32	.09	.42

CAL YR 1973 TOTAL 129,822.0 MEAN 356 MAX 2,830 MIN 15 CFSM 2.44 IN 33.08
WTR YR 1974 TOTAL 94,135.9 MEAN 258 MAX 2,540 MIN 7.5 CFSM 1.77 IN 23.99

PEAK DISCHARGE (BASE, 1,200 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-22	0800	8.43	2,790				
12-28	1730	7.11	1,550				
4-6	0730	6.85	1,320				
4-15	1430	7.20	1,630				

01087000 BLACKWATER RIVER NEAR WEBSTER, N.H.

LOCATION.--Lat 43°17'45", long 71°41'46", Merrimack County, on left bank 0.2 mi (0.3 km) west of Dingit Corner, 2.4 mi (3.9 km) downstream from Blackwater Dam, 2.5 mi (4.0 km) southeast of Webster, and 6.5 mi (10.5 km) upstream from mouth.

DRAINAGE AREA.--129 mi² (334 km²).

PERIOD OF RECORD.--May 1918 to September 1920, February 1927 to current year. Published as "near Contoocook" 1918-20, 1927-35. Records published for both sites October 1934 to September 1935.

GAGE.--Water-stage recorder. Altitude of gage is 430 ft (131 m) from topographic map. Prior to Oct. 1, 1935, chain gage at site 5 mi (8 km) downstream at different datum.

AVERAGE DISCHARGE.--49 years, 211 ft³/s (5.976 m³/s), 22.21 in/yr (564 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,370 ft³/s (38.8 m³/s) Apr. 16, 17 (gage height, 6.00 ft or 1.829 m); minimum, 9.5 ft³/s (0.27 m³/s) Aug. 26, 27.

Period of record: Maximum discharge, 11,000 ft³/s (312 m³/s) Mar. 19, 1936 (gage height, 11.78 ft or 3.591 m, from floodmarks), from rating curve extended above 6,700 ft³/s (190 m³/s) on basis of slope-area and critical-depth measurements of peak flow; minimum, 3 ft³/s (0.085 m³/s) Sept. 17, 1941; minimum daily, 7.6 ft³/s (0.22 m³/s) Sept. 29, 1964. Maximum discharge since construction of Blackwater Reservoir in 1941, 2,390 ft³/s (67.7 m³/s) Apr. 16, 1951, Apr. 10, 1952 (gage height, 7.18 ft or 2.188 m).

Maximum stage since at least 1733, that of Mar. 19, 1936.

REMARKS.--Records good. High flow regulated by Blackwater Reservoir since 1941 (see p. 70). Some regulation at low flow prior to 1953 by mill above station.

REVISIONS (WATER YEARS).--WSP 696: Drainage area. WSP 821: 1936(M). WSP 851: 1936. WSP 867: 1936(flood-report data). WSP 1231: 1919-20, 1927, 1928(M), 1929-32, 1933-34(M), 1936 (calendar-year summaries).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	44	247	224	700	459	176	300	316	312	93	26	63
2	40	215	176	550	409	186	400	383	285	86	25	74
3	40	187	142	470	337	185	480	415	229	83	24	81
4	41	155	122	380	272	172	600	386	240	80	24	152
5	44	126	117	340	224	242	775	412	206	79	23	263
6	45	106	175	300	196	422	1.020	409	181	84	21	289
7	45	93	245	260	180	550	1.140	371	158	87	20	214
8	44	84	255	230	170	599	1.080	359	140	97	19	166
9	46	78	210	200	160	595	818	343	128	99	19	140
10	47	73	278	190	150	477	581	355	119	90	17	121
11	44	68	395	180	145	328	493	476	111	79	16	106
12	41	63	391	175	135	296	480	591	108	68	15	97
13	38	61	284	170	130	240	518	667	105	59	15	89
14	36	60	294	175	125	214	554	768	98	53	15	84
15	35	60	557	180	120	210	790	795	92	48	14	81
16	34	63	752	170	120	194	1.230	504	91	45	14	79
17	33	71	643	160	115	435	1.250	388	119	41	14	76
18	31	88	491	150	110	748	828	491	179	38	14	71
19	31	91	327	145	110	818	656	345	202	36	14	67
20	32	85	291	145	110	650	562	293	167	38	14	65
21	34	84	423	150	125	520	475	251	137	37	13	65
22	34	75	948	217	151	540	409	228	118	36	13	73
23	37	70	1.310	282	224	450	386	213	105	35	13	85
24	40	70	1.330	310	280	390	392	230	95	33	12	89
25	38	73	1.300	300	295	420	428	320	87	32	11	78
26	37	81	1.080	263	252	370	419	454	91	31	9.8	64
27	37	91	632	265	206	320	364	583	106	30	9.6	54
28	36	108	895	381	183	290	323	594	112	30	10	55
29	35	157	1.230	541	------	260	290	493	108	29	13	59
30	63	227	1.050	607	------	240	270	398	100	29	20	66
31	160	------	710	546	------	250	------	344	------	28	42	------
TOTAL	1.342	3.110	17.277	9.132	5.493	11.785	18.311	13.175	4.329	1.733	529.4	3.066
MEAN	43.3	104	557	295	196	380	610	425	144	55.9	17.1	102
MAX	160	247	1.330	700	459	818	1.250	795	312	99	42	289
MIN	31	60	117	145	110	172	270	213	87	28	9.6	54
CFSM	.34	.81	4.32	2.29	1.52	2.95	4.73	3.29	1.12	.43	.13	.79
IN.	.39	.90	4.98	2.63	1.58	3.40	5.28	3.80	1.25	.50	.15	.88

CAL YR 1973 TOTAL 120.088.0 MEAN 329 MAX 1.840 MIN 31 CFSM 2.55 IN 34.63
WTR YR 1974 TOTAL 89.282.4 MEAN 245 MAX 1.330 MIN 9.6 CFSM 1.90 IN 25.75

NOTE.--Discharge in cubic feet per second per square mile and runoff in inches may not represent flow because of regulation.

01088000 CONTOOCOOK RIVER AT PENACOOK, N.H.

LOCATION.--Lat 43°17'12", long 71°35'56", Merrimack County, on right bank at Penacook, 0.5 mi (0.8 km) upstream from mouth.

DRAINAGE AREA.--766 mi^2 (1,984 km^2).

PERIOD OF RECORD.--October 1928 to current year. Monthly discharge only for October 1928, published in WSP 1301.

GAGE.--Water-stage recorder. Datum of gage is 273.09 ft (83.238 m) above mean sea level.

AVERAGE DISCHARGE.--46 years, 1,254 ft^3/s (35.51 m^3/s), 22.23 in/yr (565 mm/yr).

EXTREMES.--Current year: Maximum discharge not determined; maximum daily, 8,100 ft^3/s (229 m^3/s) Dec. 23; minimum discharge not determined; minimum daily, 50 ft^3/s (1.42 m^3/s) Aug. 24.

Period of record: Maximum discharge, 46,800 ft^3/s (1,330 m^3/s) Mar. 20, 1936 (gage height, 14.26 ft or 4.346 m, from floodmarks); minimum, 18 ft^3/s (0.51 m^3/s) Sept. 7, 1968; minimum daily, 57 ft^3/s (1.61 m^3/s) Oct. 12, 1964, Aug. 16, 1965. Maximum discharge since construction of Hopkinton and Everett Dams in 1962, 10,300 ft^3/s (292 m^3/s) Apr. 25, 1969 (gage height, 6.29 ft or 1.917 m).

Stage and discharge of flood of Mar. 20, 1936, are the greatest since at least 1725.

REMARKS.--Records good prior to November 21, fair thereafter. Flow regulated by Nubanusit Lake, Edward MacDowell Reservoir since 1950, Highland Lake, Lake Franklin Pierce, Hopkinton Lake since 1962, Blackwater Reservoir since 1941 (see p. 70), and other reservoirs above station. Diversion from Hopkinton Lake to Everett Lake on Piscataquog River at times during periods of high flow in March 1968 and April 1969.

REVISIONS (WATER YEARS).--WSP 756: 1933(M), drainage area. WSP 1231: 1929, 1931. WSP 1901: 1960.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	216	1,270	960	3,750	3,100	1,250	1,700	1,900	1,600	520	135	69
2	223	1,240	770	3,250	2,850	1,350	2,100	2,350	1,550	470	155	175
3	201	1,010	640	2,750	2,300	1,350	2,650	2,200	1,400	360	91	260
4	221	809	620	2,300	1,950	1,150	3,500	2,150	1,250	340	105	670
5	223	677	670	2,050	1,800	1,600	4,700	2,150	1,100	370	165	1,100
6	260	577	1,100	1,750	1,550	2,550	5,600	1,950	980	425	165	1,000
7	292	542	1,400	1,550	1,400	2,950	5,400	1,850	870	405	120	770
8	278	554	1,400	1,400	1,350	2,900	4,750	1,750	780	380	87	750
9	286	514	1,200	1,250	1,300	2,650	3,900	1,600	740	385	130	600
10	258	491	1,800	1,200	1,200	2,250	3,250	1,750	690	355	115	485
11	240	466	2,200	1,150	1,100	1,800	2,750	2,800	630	350	76	375
12	225	432	2,000	1,100	1,050	1,600	2,850	3,000	600	310	150	340
13	226	431	1,550	1,050	980	1,350	3,000	3,700	570	300	135	305
14	207	466	1,700	1,050	920	1,250	3,150	4,050	510	265	81	310
15	150	396	3,000	1,100	880	1,200	4,900	3,600	295	275	72	310
16	192	469	3,000	1,100	850	1,150	6,100	2,900	390	250	125	295
17	186	422	2,600	1,000	800	3,000	5,700	2,300	620	220	57	275
18	169	481	2,750	950	770	4,500	4,300	2,300	890	195	79	265
19	169	482	2,450	930	760	4,000	3,550	1,900	760	180	155	245
20	185	458	2,150	910	770	3,050	2,900	1,600	690	135	110	235
21	191	350	2,900	1,000	840	2,550	2,650	1,350	670	160	61	240
22	162	305	7,800	1,400	960	2,650	2,250	1,300	600	205	110	325
23	210	340	8,100	1,700	1,800	2,550	2,150	1,200	560	170	98	405
24	195	360	7,800	1,950	2,600	2,450	2,100	1,300	520	130	50	430
25	218	355	7,400	1,850	2,350	2,550	2,250	1,900	490	150	80	375
26	222	380	5,400	1,700	1,800	2,350	2,200	2,600	520	125	120	335
27	208	405	4,950	1,750	1,450	1,900	1,950	2,650	610	120	79	275
28	199	560	6,400	3,100	1,300	1,800	1,750	2,450	610	115	65	285
29	185	780	6,900	4,050	-------	1,550	1,600	2,050	560	130	215	340
30	400	1,050	6,000	4,150	-------	1,450	1,450	1,900	530	160	77	480
31	1,000	-------	4,450	3,750	-------	1,450	-------	1,750	-------	150	140	-------
TOTAL	7,597	17,072	102,060	57,990	40,780	66,150	97,100	68,250	22,585	8,105	3,403	12,324
MEAN	245	569	3,292	1,871	1,456	2,134	3,237	2,202	753	261	110	411
MAX	1,000	1,270	8,100	4,150	3,100	4,500	6,100	4,050	1,600	520	215	1,100
MIN	150	305	620	910	760	1,150	1,450	1,200	295	115	50	69
CFSM	.32	.74	4.30	2.44	1.90	2.79	4.23	2.87	.98	.34	.14	.54
IN.	.37	.83	4.96	2.82	1.98	3.21	4.72	3.31	1.10	.39	.17	.60

CAL YR 1973 TOTAL 702,541 MEAN 1,925 MAX 8,770 MIN 150 CFSM 2.51 IN 34.12
WTR YR 1974 TOTAL 503,416 MEAN 1,379 MAX 8,100 MIN 50 CFSM 1.80 IN 24.45

NOTE.--No gage-height record Nov. 21 to Sept. 30. Discharge in cubic feet per second per square mile and runoff in inches may not represent natural flow because of regulation.

01089000 SOUCOOK RIVER NEAR CONCORD, N.H.

LOCATION.--Lat 43°14'22", long 71°27'44", Merrimack County, on left bank 500 ft (150 m) upstream from U. S. Highway 4, 0.9 mi (1.4 km) upstream from Cemetery Brook, and 4.4 mi (7.1 km) northeast of State Capitol at Concord.

DRAINAGE AREA.--76.8 mi² (198.9 km²).

PERIOD OF RECORD.--October 1951 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 290 ft (88 m) from topographic map.

AVERAGE DISCHARGE.--23 years, 110 ft³/s (3.115 m³/s), 19.45 in/yr (494 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,730 ft³/s (49.0 m³/s) Dec. 22 (gage height, 11.28 ft or 3.438 m); minimum, 3.8 ft³/s (0.11 m³/s) Aug. 15, 16.

Period of record: Maximum discharge, 2,880 ft³/s (81.6 m³/s) Apr. 6, 1960 (gage height, 13.34 ft or 4.066 m); minimum, 1.5 ft³/s (0.042 m³/s) Aug. 7, 1965.

REMARKS.--Records good except those for winter period and period of backwater from rocks, which are fair. Records of suspended-sediment loads for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1331: 1952(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22	101	73	280	310	137	180	235	144	26	9.3	5.5
2	38	123	63	245	240	149	238	240	148	24	8.6	4.4
3	36	89	55	210	200	132	283	180	123	26	8.2	6.0
4	40	73	59	193	170	131	375	224	106	27	7.8	29
5	38	61	60	163	130	199	398	199	94	29	10	21
6	52	53	172	140	110	240	483	170	83	37	8.8	12
7	40	48	146	120	100	229	363	167	73	32	5.5	10
8	34	45	113	100	95	243	310	170	67	27	5.5	11
9	29	43	108	90	92	191	273	149	61	23	6.9	9.3
10	27	40	224	95	90	150	235	183	54	22	7.1	7.6
11	26	35	185	105	96	130	220	368	49	20	6.7	6.3
12	24	35	146	110	92	110	273	270	44	19	6.2	5.7
13	23	35	116	100	90	100	290	423	43	18	5.1	5.3
14	23	34	199	92	90	98	295	373	39	16	4.7	6.7
15	23	34	480	100	75	96	528	273	38	15	3.9	7.3
16	21	35	310	96	70	103	468	210	37	15	3.8	5.8
17	20	38	390	90	68	793	333	182	67	15	4.2	4.8
18	20	36	992	88	66	677	265	161	76	13	4.0	4.4
19	20	34	500	84	64	358	224	138	56	14	5.8	3.9
20	21	32	400	82	80	270	197	123	51	17	5.5	3.9
21	26	29	599	80	125	216	178	110	48	16	5.3	4.4
22	27	34	1,410	204	154	200	165	103	43	13	4.8	10
23	27	35	700	270	495	206	156	105	37	12	4.8	11
24	29	35	390	250	313	227	182	138	34	13	5.7	7.8
25	29	40	300	210	231	254	183	214	31	11	5.8	6.3
26	28	47	285	178	180	210	159	348	31	10	6.0	5.8
27	27	43	478	220	144	182	148	315	32	9.2	5.8	5.1
28	25	66	605	470	137	161	135	238	32	8.8	5.7	5.0
29	21	99	545	503	------	143	126	189	29	9.6	6.5	9.6
30	84	84	403	450	------	136	119	168	28	10	5.5	19
31	158	------	315	360	------	146	------	148	------	9.6	6.2	------
TOTAL	1,058	1,536	10,821	5,778	4,107	6,617	7,782	6,514	1,798	557.2	189.7	253.9
MEAN	34.1	51.2	349	186	147	213	259	210	59.9	18.0	6.12	8.46
MAX	158	123	1,410	503	495	793	528	423	148	37	10	29
MIN	20	29	55	80	64	96	119	103	28	8.8	3.8	3.9
CFSM	.44	.67	4.54	2.42	1.91	2.77	3.37	2.73	.78	.23	.08	.11
IN.	.51	.74	5.24	2.80	1.99	3.21	3.77	3.16	.87	.27	.09	.12

CAL YR 1973 TOTAL 58,843.0 MEAN 161 MAX 1,410 MIN 12 CFSM 2.10 IN 28.50
WTR YR 1974 TOTAL 47,011.8 MEAN 129 MAX 1,410 MIN 3.8 CFSM 1.68 IN 22.77

PEAK DISCHARGE (BASE, 700 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-18	1030	9.97	1,140				
12-22	0930	11.28	1,730				
3-17	2000	10.10	1,190				

NOTE.--Backwater from rocks July 9 to Sept. 30.

01090800 PISCATAQUOG RIVER BELOW EVERETT DAM, NEAR EAST WEARE, N.H.

LOCATION.--Lat 43°05'29", long 71°39'36", Hillsborough County, on right bank 500 ft (150 m) downstream from Everett Dam and 1.4 mi (2.3 km) southeast of East Weare.

DRAINAGE AREA.--63.1 mi² (163.4 km²).

PERIOD OF RECORD.--March 1963 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 320 ft (98 m) from topographic map.

AVERAGE DISCHARGE.--11 years, 91.2 ft³/s (2.583 m³/s), 19.63 in/yr (499 mm/yr), adjusted for storage and diversion.

EXTREMES.--Current year: Maximum discharge, 546 ft³/s (15.5 m³/s) Dec. 26 (gage height, 6.98 ft or 2.128 m); minimum daily, 2.8 ft³/s (0.079 m³/s) Aug. 27, 28.
Period of record: Maximum discharge, 1,530 ft³/s (43.3 m³/s) May 1, 1969 (gage height, 8.73 ft or 2.661 m); no flow for part of Aug. 27, Nov. 18, 1964, Oct. 22, 1968, caused by unusual regulation; minimum daily discharge, 0.39 ft³/s (0.011 m³/s) Sept. 6, 1968.

REMARKS.--Records good. Flow regulated by Everett Lake (see p. 70). Diversion from Hopkinton Lake on Contoocook River to Everett Lake during periods of high flow in the spring of 1968 and 1969. Occasional regulation by small reservoirs above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	118	53	264	258	94	134	261	107	30	7.3	7.4
2	9.6	103	48	236	227	100	163	158	102	26	6.9	7.5
3	11	82	43	200	182	94	283	125	93	25	6.7	10
4	12	66	39	179	152	95	228	112	79	26	6.5	38
5	14	60	39	155	123	139	284	175	68	26	7.4	46
6	15	69	79	134	109	183	343	114	60	31	7.3	35
7	14	57	90	127	110	179	312	105	57	30	6.6	28
8	13	46	79	113	86	172	249	96	58	34	5.2	27
9	11	42	77	97	74	152	222	95	53	30	6.5	22
10	11	51	140	95	75	130	203	129	45	25	6.6	19
11	11	45	150	101	97	113	187	259	38	20	5.8	15
12	12	39	131	99	87	99	208	242	34	16	5.2	13
13	14	41	109	89	96	86	236	287	31	14	4.8	12
14	35	69	131	109	72	77	265	243	18	12	4.3	14
15	55	75	210	90	54	73	402	204	15	12	3.8	12
16	60	62	207	109	54	75	402	181	23	13	3.4	10
17	52	50	199	94	54	194	305	165	86	11	3.3	9.3
18	44	43	221	77	54	232	231	148	122	10	4.4	9.7
19	40	37	221	91	79	256	175	124	97	10	4.6	9.0
20	37	32	216	103	67	265	136	106	72	10	4.5	8.7
21	35	30	212	64	81	259	122	94	55	9.0	4.0	10
22	43	36	324	60	104	253	68	87	47	8.5	3.7	16
23	43	36	430	128	205	248	134	84	40	7.8	3.5	16
24	57	33	457	161	212	242	143	101	34	7.7	3.6	14
25	49	33	442	160	187	237	157	143	30	7.7	3.7	12
26	39	32	490	145	137	206	150	205	32	7.7	3.0	11
27	32	32	515	158	112	168	138	238	36	7.7	2.8	10
28	25	40	515	227	96	145	134	208	36	7.4	2.8	9.6
29	23	54	510	373	------	125	124	171	33	7.6	3.3	17
30	82	56	487	433	------	112	102	151	32	8.1	6.1	29
31	130	------	359	254	------	115	------	118	------	7.7	7.6	------
TOTAL	1.038.6	1.569	7.223	4.725	3.244	4.918	6.160	4.929	1.633	497.9	155.2	497.2
MEAN	33.5	52.3	233	152	116	159	205	159	54.4	16.1	5.01	16.6
MAX	130	118	515	433	258	265	402	287	122	34	7.6	46
MIN	9.6	30	39	60	54	73	68	84	15	7.4	2.8	7.4
MEAN†	36.0	51.0	236	150	115	159	205	159	53.4	15.4	5.01	17.2
CFSM†	.57	.81	3.74	2.38	1.82	2.52	3.25	2.52	.85	.24	.08	.27
IN.†	.66	.90	4.32	2.75	1.90	2.90	3.63	2.91	.94	.28	.09	.30

CAL YR 1973 TOTAL 51.645.2 MEAN 141 MAX 1.150 MIN 6.3 MEAN† 142 CFSM† 2.25 IN† 30.50
WTR YR 1974 TOTAL 36.589.9 MEAN 100 MAX 515 MIN 2.8 MEAN† 100 CFSM† 1.58 IN† 21.58

† Adjusted for change in contents in Everett Lake.

01091000 SOUTH BRANCH PISCATAQUOG RIVER NEAR GOFFSTOWN, N.H.

LOCATION.--Lat 43°00'49", long 71°38'31", Hillsborough County, on right bank 20 ft (6 m) upstream fom highway bridge, 1.4 mi (2.3 km) upstream from mouth, and 2.2 mi (3.5 km) west of Goffstown.

DRAINAGE AREA.--104 mi² (269 km²).

PERIOD OF RECORD.--July 1940 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 310 ft (94 m) from topographic map.

AVERAGE DISCHARGE.--34 years, 164 ft³/s (4.644 m³/s), 21.41 in/yr (544 mm/yr).

EXTREMES.--Current year: Maximum discharge, 2,970 ft³/s (84.1 m³/s) Dec. 21 (gage height, 8.47 ft or 2.582 m); minimum, 5.8 ft³/s (0.16 m³/s) Aug. 16, 17, 27.
Period of record: Maximum discharge, 4,100 ft³/s (116 m³/s) June 25, 1944 (gage height, 9.47 ft or 2.886 m); maximum gage height, 14.33 ft (4.368 m) Feb. 11, 1970 (ice jam); minimum discharge, 2.4 ft³/s (0.068 m³/s) Aug. 20-22, 1966.

REMARKS.--Records good except those for winter period, which are fair. Prior to 1954, some regulation at low flow by mill above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	168	94	360	400	160	300	324	190	47	12	13
2	13	158	67	300	350	177	358	327	170	41	10	16
3	15	111	58	270	280	155	443	236	152	38	10	32
4	22	88	55	250	250	172	484	242	151	37	10	132
5	26	76	61	220	210	302	511	230	124	36	12	83
6	29	64	151	200	190	309	527	193	101	43	11	51
7	29	59	151	190	170	219	410	187	87	41	9.7	43
8	25	52	116	175	155	180	327	185	77	38	8.5	46
9	21	48	120	160	145	150	308	167	72	33	8.8	36
10	19	46	358	150	135	130	294	318	67	30	8.0	29
11	17	46	266	145	130	120	282	714	55	26	8.1	25
12	16	39	190	140	125	115	363	436	51	23	8.0	21
13	15	41	140	140	120	110	407	545	46	21	6.9	18
14	15	40	265	150	110	110	392	455	42	19	6.3	19
15	15	39	500	160	100	105	825	307	39	18	6.0	19
16	14	38	316	150	98	105	684	238	53	16	5.8	16
17	14	39	388	140	94	200	474	215	258	17	6.8	14
18	14	38	628	130	92	300	382	203	234	17	10	14
19	15	36	400	130	90	494	335	167	136	17	9.0	13
20	16	35	330	120	100	400	282	145	97	17	8.0	13
21	17	36	1.000	130	120	443	247	129	82	15	7.2	17
22	17	36	2.070	220	170	413	228	119	80	14	6.3	43
23	16	50	899	270	300	380	222	125	70	13	6.6	39
24	16	44	562	280	270	320	241	168	61	14	6.9	29
25	16	43	453	270	220	300	273	251	52	13	7.2	24
26	15	46	417	240	190	290	228	422	57	12	6.3	22
27	16	48	850	300	170	301	203	371	44	12	5.8	21
28	35	82	1.030	450	160	263	180	276	60	12	8.7	19
29	25	136	842	600	-------	225	161	227	54	12	8.0	48
30	216	111	587	520	-------	209	151	214	52	13	16	66
31	265	-------	450	460	-------	238	-------	192	-------	13	18	-------
TOTAL	1.019	1.885	13.814	7.420	4.944	7.315	10.522	8.328	2.834	718	271.9	981
MEAN	32.9	62.8	446	239	177	236	351	269	94.5	23.2	8.77	32.7
MAX	265	168	2.070	600	400	494	825	714	258	47	18	132
MIN	13	35	55	120	90	105	151	119	39	12	5.8	13
CFSM	.32	.60	4.29	2.30	1.70	2.27	3.38	2.59	.91	.22	.08	.31
IN.	.36	.67	4.94	2.65	1.77	2.62	3.76	2.98	1.01	.26	.10	.35

CAL YR 1973 TOTAL 85.467.0 MEAN 234 MAX 2.070 MIN 12 CFSM 2.25 IN 30.57
WTR YR 1974 TOTAL 60.051.9 MEAN 165 MAX 2.070 MIN 5.8 CFSM 1.59 IN 21.48

NOTE.-No gage-height record Jan. 13 to Feb. 18.

PEAK DISCHARGE (BASE, 1,000 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-21	2400	8.47	2,970				
12-28	1830	6.27	1,130				

01091500 PISCATAQUOG RIVER NEAR GOFFSTOWN, N.H.

LOCATION.--Lat 43°00'58", long 71°33'03", Hillsborough County, on left bank 300 ft (90 m) upstream from highway bridge, 0.2 mi (0.3 km) upstream from Harry Brook, 0.4 mi (0.6 km) southwest of Grasmere, 0.9 mi (1.4 km) downstream from Glen Lake, and 2.5 mi (4.0 km) east of Goffstown.

DRAINAGE AREA.--202 mi² (523 km²).

PERIOD OF RECORD.--October 1939 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 185 ft (56 m) from topographic map. Prior to Dec. 22, 1939, staff gage at same site and datum.

AVERAGE DISCHARGE.--35 years, 304 ft³/s (8.609 m³/s), 20.44 in/yr (519 mm/yr), adjusted for storage and diversion.

EXTREMES.--Current year: Maximum discharge, 3,850 ft³/s (109 m³/s) Dec. 22 (gage height, 8.72 ft or 2.658 m); minimum daily, 13 ft³/s (0.368 m³/s) July 28, 29, Aug. 17.

Period of record: Maximum discharge, 6,840 ft³/s (194 m³/s) Apr. 5, 1960 (gage height, 10.85 ft or 3.307 m); minimum daily, 2.2 ft³/s (0.062 m³/s) Sept. 7, 1962.

Maximum discharge since at least 1733, 21,900 ft³/s (620 m³/s) Sept. 21, 1938 (gage height, 17.52 ft or 5.340 m, from floodmarks), by computation of flow over dam. Flood of Mar. 19, 1936, reached a discharge of 19,900 ft³/s (564 m³/s), by computation of flow over dam.

REMARKS.--Records excellent except those for winter period, which are fair. Flow regulated by Everett Lake 10 mi (16 km) upstream since 1962 (see p. 70) and occasionally by Glen Lake since 1966. Prior to October 1966, flow regulated by powerplant at outlet of Glen Lake. Diversion from Hopkinton Lake on Contoocook River to Everett Lake during spring period of high flow in 1968 and 1969.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	29	356	172	796	811	345	535	524	385	102	21	29
2	28	432	147	708	674	368	613	588	361	90	23	28
3	29	454	131	687	547	339	734	452	313	85	23	36
4	30	335	118	525	460	335	889	426	297	78	23	118
5	41	34	119	438	420	528	866	455	248	76	23	166
6	45	32	242	410	360	625	994	387	257	82	22	128
7	46	29	249	400	330	576	867	354	317	88	20	102
8	43	43	236	380	300	546	712	340	51	100	20	93
9	38	165	231	360	280	479	652	311	54	90	19	80
10	120	105	518	340	260	420	609	427	58	82	17	66
11	94	102	498	310	250	360	576	881	101	74	22	56
12	53	92	395	290	240	333	667	726	108	67	19	47
13	39	93	309	280	230	279	727	955	98	64	17	41
14	37	110	405	260	220	264	727	846	89	59	16	40
15	36	124	835	250	210	253	1.310	624	77	54	15	38
16	32	122	637	240	200	273	1.270	520	92	49	14	54
17	29	105	745	230	190	1.380	997	468	413	47	13	33
18	49	95	997	220	180	1.160	800	436	466	43	16	28
19	88	86	862	210	190	822	679	364	319	39	17	26
20	88	74	578	210	312	711	586	310	230	38	17	27
21	87	90	1.380	240	357	716	520	274	183	37	17	35
22	88	123	2.930	340	436	929	448	250	166	37	17	63
23	88	122	1.520	380	832	826	419	258	145	35	17	136
24	87	121	1.110	480	704	828	446	325	125	35	17	287
25	87	119	903	450	575	823	491	449	108	35	16	141
26	87	119	926	440	453	700	438	684	111	35	15	32
27	77	117	1.570	590	374	597	400	692	123	27	14	19
28	52	118	1.810	1.130	341	527	364	574	121	13	14	19
29	52	119	1.590	1.270	------	453	327	483	112	13	16	20
30	52	89	1.250	1.220	------	420	309	442	108	14	21	19
31	439	------	1.020	979	------	454	------	397	------	17	26	------
TOTAL	2.189	4.072	24.373	14.975	10.736	17.669	19.894	15.222	5.636	1.705	567	2.007
MEAN	70.6	136	786	483	383	570	663	491	188	55.0	18.3	66.9
MAX	439	454	2.930	1.270	832	1.380	1.310	955	466	102	26	287
MIN	28	29	118	210	180	253	309	250	51	13	13	19
MEAN†	73.2	134	789	481	383	570	663	491	187	54.4	18.3	67.6
CFSM†	.36	.66	3.91	2.38	1.90	2.82	3.28	2.43	.93	.27	.09	.33
IN.†	.42	.74	4.51	2.75	1.97	3.25	3.66	2.80	1.03	.31	.10	.37

CAL YR 1973 TOTAL 166.665 MEAN 457 MAX 2.930 MIN 24 MEAN† 457 CFSM† 2.26 IN† 30.71
WTR YR 1974 TOTAL 119.045 MEAN 326 MAX 2.930 MIN 13 MEAN† 326 CFSM† 1.61 IN† 21.93

† Adjusted for change in contents in Everett Lake.

01092000 MERRIMACK RIVER NEAR GOFFS FALLS, BELOW MANCHESTER, N.H.

LOCATION.--Lat 42°56'54", long 71°27'52", Hillsborough County, on right bank 600 ft (200 m) upstream from bridge on Interstate Highway 193, 0.8 mi (1.3 km) downstream from Bowman Brook, 1.3 mi (2.1 km) north of Goffs Falls, and 2.3 mi (3.7 km) downstream from Piscataquog River.

DRAINAGE AREA.--3,092 mi² (8,008 km²).

PERIOD OF RECORD.--October 1936 to current year. October 1936 monthly discharge only, published in WSP 1301.

GAGE.--Water-stage recorder. Datum of gage is 109.27 ft (33.305 m) above mean sea level.

AVERAGE DISCHARGE.--38 years, 5,223 ft³/s (147.9 m³/s), 22.94 in/yr (583 mm/yr).

EXTREMES.--Current year: Maximum discharge, 34,000 ft³/s (963 m³/s) Dec. 22 (gage height, 11.50 ft or 3.505 m); minimum daily, 695 ft³/s (19.7 m³/s) Aug. 17.

Period of record: Maximum discharge, 102,500 ft³/s (2,900 m³/s) Sept. 23, 1938 (gage height, 25.87 ft or 7.885 m), from rating curve extended above 48,000 ft³/s (1,360 m³/s) on basis of computations of flow over dam at gage heights 25.87 ft (7.885 m) and 35.19 ft (10.726 m); minimum daily, 98 ft³/s (2.78 m³/s) Oct. 11, 1964.

Maximum discharge since at least 1722, 150,000 ft³/s (4,250 m³/s) Mar. 20, 1936 (gage height, 35.19 ft or 10.726 m, from floodmarks), from rating curve extended above 48,000 ft³/s (1,360 m³/s) by method explained above.

REMARKS.--Records excellent except those for period of no gage-height record, which are fair. Flow regulated by powerplants, by Franklin Falls Reservoir since 1942, and by Squam, Newfound, Winnipesaukee, Winnisquam, and other lakes and reservoirs above station. See page 70 for description and monthend contents of many of these reservoirs.

REVISIONS (WATER YEARS).--WSP 1231: 1937. WSP 1271: 1937(M, m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,240	6,090	6,360	14,900	11,900	4,900	6,090	11,400	7,960	2,460	1,350	1,120
2	1,400	5,760	4,720	13,000	10,600	5,180	7,220	13,000	7,810	2,780	1,200	1,600
3	1,620	6,710	4,140	11,800	9,350	5,020	8,730	12,400	8,000	2,280	1,300	2,500
4	1,290	5,920	3,950	10,600	8,190	4,780	10,200	10,600	7,060	2,260	1,350	2,750
5	1,620	3,630	3,120	9,810	7,700	5,530	13,200	10,800	6,120	1,990	1,400	3,400
6	1,710	3,140	3,810	9,060	6,500	7,040	19,200	10,100	5,340	2,450	2,100	3,700
7	2,650	3,080	6,570	8,580	6,890	9,340	22,300	8,710	5,080	2,900	2,100	3,750
8	2,590	2,860	7,070	7,960	6,390	10,600	18,400	8,080	3,640	3,110	1,600	3,450
9	2,120	2,880	5,860	6,960	5,890	11,400	15,300	8,190	3,530	2,570	1,400	2,680
10	2,310	2,780	5,760	6,820	5,790	9,250	13,000	8,330	3,450	1,870	1,200	2,330
11	1,810	2,780	8,190	6,740	5,760	7,370	11,200	10,900	2,870	2,150	1,150	1,770
12	1,900	1,950	8,070	7,440	5,350	6,520	10,800	13,000	2,760	2,000	1,200	1,790
13	2,110	2,460	6,220	6,960	5,240	5,500	10,900	14,300	2,190	1,800	1,000	1,560
14	1,900	2,310	6,430	5,920	4,810	4,400	11,200	18,400	2,650	1,800	901	1,280
15	1,780	2,370	11,600	5,690	4,090	5,140	14,000	16,900	2,220	1,550	771	1,530
16	2,020	2,350	14,800	5,920	4,660	4,340	21,100	13,800	2,020	1,500	795	1,750
17	1,880	3,120	12,600	5,600	4,140	9,970	21,900	10,500	2,280	1,400	695	1,560
18	1,730	4,030	15,000	4,990	4,280	17,300	18,200	10,200	3,910	1,400	1,070	1,410
19	1,980	3,760	15,000	4,930	4,060	15,300	15,800	10,200	4,450	1,500	799	1,570
20	1,490	2,930	11,500	5,190	4,720	12,000	14,500	8,510	4,500	1,250	1,020	2,150
21	1,640	2,800	11,500	5,220	4,780	9,850	12,300	7,330	3,490	1,400	1,090	1,330
22	1,830	2,260	28,300	5,920	5,720	9,390	10,600	6,200	3,210	1,500	1,260	1,270
23	1,980	2,280	32,500	7,480	7,370	8,890	11,200	5,670	2,850	1,300	1,100	3,020
24	2,060	2,280	29,600	8,650	8,480	8,620	14,000	6,480	2,700	1,300	799	3,130
25	1,770	2,550	28,800	8,620	8,880	8,890	16,300	9,470	2,460	1,350	724	2,680
26	1,910	2,820	21,900	8,150	7,970	8,770	14,100	11,000	1,910	1,400	947	2,040
27	1,570	3,510	18,700	8,150	6,450	8,380	11,100	12,100	2,110	1,100	853	1,510
28	1,580	3,760	22,500	11,000	5,820	7,440	9,850	12,100	2,340	800	1,030	1,210
29	1,860	4,420	24,000	13,900	------	6,570	8,820	10,500	2,820	1,400	1,260	1,920
30	2,280	6,120	21,300	14,400	------	6,530	9,000	9,240	2,620	1,200	1,650	3,210
31	4,060	------	18,200	13,000	------	6,710	------	8,630	------	1,250	1,240	------
TOTAL	60,690	103,710	418,070	263,360	181,780	250,920	400,510	327,040	114,350	55,020	36,354	64,970
MEAN	1,958	3,457	13,490	8,495	6,492	8,094	13,350	10,550	3,812	1,775	1,173	2,166
MAX	4,060	6,710	32,500	14,900	11,900	17,300	22,300	18,400	8,000	3,110	2,100	3,750
MIN	1,290	1,950	3,120	4,930	4,060	4,340	6,090	5,670	1,910	800	695	1,120
CFSM	.63	1.12	4.36	2.75	2.10	2.62	4.32	3.41	1.23	.57	.38	.70
IN.	.73	1.25	5.03	3.17	2.19	3.02	4.82	3.93	1.38	.66	.44	.78

CAL YR 1973 TOTAL 2,959,838 MEAN 8,109 MAX 32,500 MIN 621 CFSM 2.62 IN 35.61
WTR YR 1974 TOTAL 2,276,774 MEAN 6,238 MAX 32,500 MIN 695 CFSM 2.02 IN 27.39

PEAK DISCHARGE (BASE, 22,000 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-22	2245	11.50	34,000				
12-28	2400	9.50	24,400				
4-7	0630	9.17	22,900				
4-16	2100	9.19	23,000				

NOTE.--No gage-height record July 12 to Aug. 12.
Discharge in cubic feet per second per square mile and runoff in inches may not represent natural flow because of regulation.

01093800 STONY BROOK TRIBUTARY NEAR TEMPLE, N.H.

LOCATION.--Lat 42°51'36", long 71°50'00", Hillsborough County, on left bank 150 ft (45 m) downstream from highway bridge, 2.9 mi (4.7 km) north of Temple, and 5.5 mi (8.8 km) upstream from mouth.

DRAINAGE AREA.--3.60 mi^2 (9.32 km^2).

PERIOD OF RECORD.--May 1963 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 920 ft (280 m) from topographic map.

AVERAGE DISCHARGE.--11 years, 6.64 ft^3/s (0.188 m^3/s), 25.05 in/yr (636 mm/yr).

EXTREMES.--Current year: Maximum discharge, about 215 ft^3/s (6.09 m^3/s) Dec. 21, from rating curve extended above 90 ft^3/s (2.55 m^3/s); maximum gage height, 7.81 ft (2.380 m) Dec. 21 (backwater from ice); minimum discharge, 0.08 ft^3/s (0.002 m^3/s) Aug. 22, 23.

Period of record: Maximum discharge, 220 ft^3/s (6.23 m^3/s) Apr. 23, 1969 (gage height, 6.53 ft or 1.990 m), from rating curve extended above 90 ft^3/s (2.55 m^3/s); maximum gage height, 7.81 ft (2.380 m) Feb. 3, 1970, Dec. 21, 1973 (backwater from ice); minimum discharge, 0.02 ft^3/s (0.001 m^3/s) Aug. 21, 1966.

REMARKS.-Records good except those for winter period, which are fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.34	4.4	4.2	12	12	9.2	12	15	9.5	2.2	.55	.49
2	.34	4.9	3.0	10	10	8.6	15	9.8	8.0	1.9	.49	.92
3	.50	1.4	3.0	9.0	9.0	7.8	20	8.0	6.5	2.1	.43	3.3
4	.54	1.0	3.0	8.0	8.5	13	30	8.3	5.6	1.9	.55	8.9
5	.67	1.1	5.3	7.4	7.4	18	26	7.0	4.8	2.1	.92	2.7
6	.82	.77	14	6.6	6.6	15	19	6.5	4.2	2.8	.55	1.3
7	.62	.88	7.1	6.0	6.2	13	14	7.0	3.4	1.9	.43	2.4
8	.50	.88	5.3	5.6	5.5	12	12	6.0	3.3	3.8	.37	1.9
9	.50	1.1	18	5.0	5.0	10	11	5.6	3.0	4.0	.43	1.1
10	.50	1.1	25	4.6	4.6	9.5	11	20	2.7	2.2	.43	.84
11	.50	1.1	12	4.4	4.3	8.0	12	16	2.4	1.6	.32	.76
12	.50	1.0	7.4	4.0	4.0	5.6	14	12	2.1	1.2	.24	.68
13	.46	.82	7.8	3.8	3.7	4.8	15	26	2.1	1.1	.21	.55
14	.46	.94	27	3.6	3.4	4.3	18	14	1.8	.92	.18	1.6
15	.50	.88	19	3.4	3.2	3.8	44	11	1.5	.84	.18	1.0
16	.46	.94	10	3.3	2.9	3.6	18	9.2	13	.76	.15	.76
17	.46	.94	27	3.1	2.7	38	15	10	29	.76	.15	.68
18	.46	.88	25	2.9	2.6	16	12	8.6	11	.61	.28	.55
19	.58	.88	20	2.8	2.5	11	11	7.5	5.8	2.1	.21	.55
20	.58	.77	40	2.7	4.0	9.2	9.8	6.5	4.8	2.1	.18	.55
21	.54	.82	80	5.0	5.0	12	9.2	5.8	4.2	.92	.15	3.3
22	.46	1.7	35	13	20	14	8.9	5.6	4.4	.76	.13	5.4
23	.50	1.6	18	11	42	12	8.6	9.8	3.3	.68	.15	1.9
24	.54	1.5	15	12	17	17	11	10	3.0	.68	.28	1.2
25	.34	2.1	13	8.6	11	16	9.8	12	2.8	.68	.18	.92
26	.24	2.1	11	7.3	10	12	8.3	11	3.8	.68	.15	.84
27	.24	2.5	42	30	11	10	7.5	11	4.0	.68	.18	.68
28	.23	6.7	37	27	8.3	8.6	7.0	8.9	3.4	.68	.28	.61
29	.29	11	24	27	------	10	6.5	8.3	3.0	.68	.49	8.0
30	16	5.3	17	17	------	6.8	6.3	8.6	2.8	.76	2.4	4.0
31	5.7	------	14	15	------	9.8	------	7.3	------	.76	.92	------
TOTAL	35.37	62.00	589.1	281.1	232.4	348.6	421.9	312.3	159.2	44.85	12.56	58.38
MEAN	1.14	2.07	19.0	9.07	8.30	11.2	14.1	10.1	5.31	1.45	.41	1.95
MAX	16	11	80	30	42	38	44	26	29	4.0	2.4	8.9
MIN	.23	.77	3.0	2.7	2.5	3.6	6.3	5.6	1.5	.61	.13	.49
CFSM	.32	.58	5.28	2.52	2.31	3.11	3.92	2.81	1.48	.40	.11	.54
IN.	.37	.64	6.09	2.90	2.40	3.60	4.36	3.23	1.65	.46	.13	.60

CAL YR 1973 TOTAL 3,433.32 MEAN 9.41 MAX 110 MIN .23 CFSM 2.61 IN 35.48
WTR YR 1974 TOTAL 2,557.76 MEAN 7.01 MAX 80 MIN .13 CFSM 1.95 IN 26.43

PEAK DISCHARGE (BASE, 110 ft^3/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-21	-	-	*215				

* About.

01094000 SOUHEGAN RIVER AT MERRIMACK, N.H.

LOCATION.--Lat 42°51'27", long 71°30'24", Hillsborough County, on left bank at head of Wildcat Falls at Merrimack, 0.4 mi (0.6 km) upstream from bridge on Everett Turnpike, and 1.5 mi (2.4 km) upstream from mouth.

DRAINAGE AREA.--171 mi² (443 km²).

PERIOD OF RECORD.--July 1909 to current year.

GAGE.--Water-stage recorder. Datum of gage is 160.58 ft (48.945 m) above mean sea level (levels by Corps of Engineers). Prior to Apr. 12, 1911, nonrecording gage at site 300 ft (90 m) downstream at datum 0.38 ft (0.116 m) lower. Apr. 12, 1911, to Oct. 14, 1913, nonrecording gage at present site and datum.

AVERAGE DISCHARGE.--65 years, 283 ft³/s (8.01 m³/s), 22.47 in/yr (571 mm/yr), adjusted for diversion.

EXTREMES.--Current year: Maximum discharge, about 3,800 ft³/s (108 m³/s) Dec. 22 (gage height, about 8.0 ft or 2.44 m); minimum, 15 ft³/s (0.42 m³/s) Aug. 21-24, 26-29.

Period of record: Maximum discharge, 16,900 ft³/s (479 m³/s) Mar. 19, 1936 (gage height, 16.2 ft or 4.94 m), from rating curve extended above 7,300 ft³/s (207 m³/s) on basis of velocity-area studies and computation of flow over dam at gage height 12.78 ft (3.895 m); minimum, 3.8 ft³/s (0.11 m³/s) Aug. 17, Sept. 8, Oct. 1, 1965.

Stage and discharge of the flood of March 19, 1936, are the greatest since 1830.

REMARKS.--Records good except those for winter period and period of no gage-height record, which are fair. Slight diurnal fluctuation at times caused by mill above station. Diversion to Pennichuck Brook basin for municipal supply of Nashua during periods of low flow from August 1965 to October 1966, July 1969 to November 1971, October 1972, October 1973, July to September 1974. High flow slightly affected by retarding reservoirs since 1963. Records of suspended-sediment loads for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 431: 1909-14. WSP 726: Drainage area. WSP 781: 1924(M). WSP 1231: 1914-15(M), 1917(M), 1919-23(M), 1927-28(M), 1929, 1930-34(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	35	412	224	900	760	326	594	388	286	113	48	55
2	45	337	184	780	660	339	622	464	330	96	41	46
3	42	246	163	640	580	322	702	383	297	88	37	52
4	43	193	146	531	500	327	726	355	248	83	36	193
5	49	163	146	458	430	435	768	332	230	79	34	230
6	54	142	247	410	370	508	820	302	200	102	39	146
7	52	127	324	380	330	450	711	288	170	119	42	113
8	54	114	257	350	320	416	603	286	156	114	27	117
9	47	106	227	320	300	369	551	260	141	126	36	106
10	38	96	540	300	290	336	527	287	132	118	29	81
11	36	87	580	280	270	310	484	663	113	88	25	72
12	37	89	435	265	260	283	581	568	104	76	22	65
13	40	97	342	260	250	242	627	751	97	69	22	57
14	41	88	360	250	240	236	626	729	92	64	21	60
15	41	85	950	290	230	237	1.040	563	86	57	19	58
16	40	84	780	300	220	226	1.050	447	94	55	18	60
17	33	87	660	240	215	943	813	396	419	47	17	58
18	32	84	720	210	210	1.130	671	371	515	40	18	42
19	31	82	670	230	205	790	565	320	350	49	18	40
20	34	80	560	250	260	630	482	282	247	48	17	36
21	46	76	1.400	265	320	566	428	242	190	51	16	42
22	46	77	3.300	396	437	969	395	227	176	50	15	75
23	46	80	2.000	570	819	848	361	236	159	44	15	114
24	43	79	1.400	586	797	767	377	364	143	34	16	93
25	37	81	1.100	544	579	822	419	411	132	43	17	76
26	38	94	900	462	439	683	374	453	128	32	16	68
27	30	98	1.400	558	360	586	331	430	136	40	15	63
28	28	134	1.950	1.320	335	511	314	380	133	30	16	58
29	33	275	1.800	1.300	------	443	300	333	127	32	16	78
30	159	298	1.400	1.110	------	407	271	321	127	64	28	166
31	490	------	1.150	900	------	455	------	308	------	65	60	------
TOTAL	1,820	4,091	26,315	15,655	10,986	15,912	17,133	12,142	5,758	2,116	796	2,520
MEAN	58.7	136	849	505	392	513	571	392	192	68.3	25.7	84.0
MAX	490	412	3.300	1.320	819	1.130	1.050	751	515	126	60	230
MIN	28	76	146	210	205	226	271	227	86	30	15	36
MEAN †	62.2	136	849	505	392	513	571	392	192	68.6	32.2	86.0
CFSM †	.36	.80	4.97	2.95	2.29	3.00	3.34	2.29	1.12	.40	.19	.50
IN.†	.42	.89	5.72	3.41	2.39	3.46	3.73	2.64	1.25	.46	.22	.56

CAL YR 1973 TOTAL 158,067 MEAN 433 MAX 3,300 MIN 28 MEAN† 433 CFSM† 2.53 IN† 34.41
WTR YR 1974 TOTAL 115,244 MEAN 316 MAX 3,300 MIN 15 MEAN† 317 CFSM† 1.85 IN† 25.15

† Adjusted for diversion to Pennichuck Brook basin for municipal supply of Nashua. Record of diversion furnished by Pennichuck Water Works.

NOTE.--No gage-height record Dec. 15 to Jan. 3.

PEAK DISCHARGE (BASE, 2,250 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-22	-	*8.0	*3,800				

* About.

01094400 NORTH NASHUA RIVER AT FITCHBURG, MASS.

LOCATION.--Lat 42°34'34", long 71°47'19", Worcester County, on right bank 400 ft (100 m) upstream from Fifth Street Bridge at Fitchburg and 1.8 mi (2.9 km) upstream from Baker Brook.

DRAINAGE AREA.--63.6 mi^2 (164.7 km^2).

PERIOD OF RECORD.--October 1972 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 400 ft (122 m) from topographic map.

EXTREMES.--Current year: Maximum discharge, 2,080 ft^3/s (58.9 m^3/s) Dec. 21 (gage height, 6.22 ft or 1.896 m); minimum, 16 ft^3/s (0.45 m^3/s) Sept. 2; minimum daily, 24 ft^3/s (0.68 m^3/s) Aug. 26.
Period of record: Maximum discharge, 2,080 ft^3/s (58.9 m^3/s) Dec. 21, 1973 (gage height, 6.22 ft or 1.896 m); minimum, 16 ft^2/s (0.45 m^3/s) Sept. 2, 1974; minimum daily, 24 ft^3/s (0.68 m^3/s) Aug. 26, 1974.

REMARKS.--Records good. Flow regulated by mills and reservoirs above station. Diversions above station for municipal use.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	42	130	71	207	211	118	221	194	169	60	33	31
2	44	96	59	191	163	120	214	143	181	55	33	25
3	56	80	53	161	158	111	221	120	128	62	37	60
4	59	64	55	149	146	128	204	133	100	49	36	138
5	55	57	71	120	120	155	211	109	91	52	34	70
6	51	59	149	111	111	143	214	105	71	64	34	52
7	45	57	98	109	125	128	185	102	53	62	34	71
8	39	57	79	89	118	111	158	98	56	77	32	61
9	35	57	155	79	109	100	158	87	53	52	32	50
10	35	56	269	85	98	98	158	185	50	46	33	45
11	35	51	172	102	98	91	152	221	43	41	31	41
12	36	49	138	100	96	85	191	188	42	38	27	40
13	36	49	109	77	98	80	194	402	40	35	30	45
14	35	49	228	82	107	67	175	262	39	36	31	64
15	34	45	239	89	94	76	350	201	38	36	30	47
16	36	52	161	74	87	98	246	161	113	44	29	43
17	36	47	368	76	89	476	188	158	221	36	29	39
18	33	44	397	68	87	265	155	136	120	35	28	46
19	35	39	221	84	93	188	138	109	79	52	27	41
20	35	40	188	87	181	155	123	100	64	47	31	40
21	34	40	1,070	89	172	277	113	94	80	42	35	62
22	36	43	1,000	152	201	411	105	91	113	42	35	82
23	37	45	476	158	416	294	105	105	80	39	35	50
24	38	44	281	166	246	294	149	120	64	34	35	38
25	35	53	207	146	191	258	155	138	62	32	28	36
26	36	62	211	125	155	201	130	130	70	31	24	37
27	37	57	716	368	125	178	120	116	74	30	31	32
28	34	102	596	482	120	149	107	107	76	30	39	37
29	44	133	406	448	------	128	98	105	84	33	35	258
30	235	84	319	328	------	128	98	98	76	39	52	178
31	185	------	232	258	------	214	------	91	------	39	38	------
TOTAL	1,563	1,841	8,794	4,860	4,015	5,325	5,036	4,409	2,530	1,370	1,018	1,859
MEAN	50.4	61.4	284	157	143	172	168	142	84.3	44.2	32.8	62.0
MAX	235	133	1,070	482	416	476	350	402	221	77	52	258
MIN	33	39	53	68	87	67	98	87	38	30	24	25

CAL YR 1973 TOTAL 60,214 MEAN 165 MAX 1,070 MIN 33
WTR YR 1974 TOTAL 42,620 MEAN 117 MAX 1,070 MIN 24

PEAK DISCHARGE (BASE, 700 ft^3/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-21	1645	6.22	2,080				
12-27	0615	4.46	866				
9-29	1630	4.30	770				

01094500 NORTH NASHUA RIVER NEAR LEOMINSTER, MASS.

LOCATION.--Lat 42°30'06", long 71°43'23", Worcester County, on right bank 1.3 mi (2.1 km) upstream from Wekepeke Brook, 2.5 mi (4.0 km) southeast of Leominster, and 6.1 mi (9.8 km) upstream from confluence with South Branch Nashua River.

DRAINAGE AREA.--110 mi² or 285 km², includes 2.1 mi² (5.4 km²) above outlet of Ashby (Fitchburg) Reservoir.

PERIOD OF RECORD.--September 1935 to current year.

GAGE.--Water-stage recorder. Datum of gage is 270.04 ft (82.308 m) above mean sea level.

AVERAGE DISCHARGE.--39 years, 192 ft³/s (5.437 m³/s), 23.70 in/yr (602 mm/yr), unadjusted.

EXTREMES.--Current year: Maximum discharge, 2,610 ft³/s (73.9 m³/s) Dec. 21 (gage height, 6.89 ft or 2.100 m); minimum, 47 ft³/s (1.33 m³/s) Aug. 12; minimum daily, 56 ft³/s (1.59 m³/s) Oct. 28.

Period of record: Maximum discharge, 16,300 ft³/s (462 m³/s) Mar. 18, 1936 (gage height, 20.53 ft or 6.258 m, from floodmarks), by computation of flow over dam; minimum, 11 ft³/s (0.31 m³/s) Aug. 29, 1948; minimum daily, 22 ft³/s (0.62 m³/s) Sept. 27, 1936, Sept. 2, 1957.

Maximum discharge since at least 1850, that of Mar. 18, 1936.

REMARKS.--Records good. Regulation at low flow by mills above station. Diversion to basin above station for municipal supplies: for Fitchburg from Mare Meadow Reservoir since 1955; for Leominster from Wachusett Reservoir since 1966 and the Southeast Well Field since 1958.

REVISIONS.--WRD Mass., N.H., R.I., Vt. 1973: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	65	214	118	367	377	235	423	350	326	124	75	68
2	75	165	98	335	320	233	394	260	329	118	71	64
3	91	131	91	304	304	221	404	217	247	145	75	91
4	85	112	93	290	290	243	376	239	200	116	71	355
5	80	102	116	257	254	272	376	197	181	139	71	156
6	67	104	229	242	235	258	379	185	154	158	73	114
7	62	98	158	237	251	237	332	193	135	124	70	141
8	62	94	126	212	237	219	298	185	128	176	70	127
9	68	94	234	193	223	201	312	165	120	124	68	99
10	68	87	410	212	202	204	318	309	120	110	66	89
11	68	83	276	234	204	191	312	364	110	100	60	86
12	67	85	224	219	196	182	373	290	106	93	60	84
13	76	82	188	181	200	169	376	654	104	89	66	95
14	67	78	379	193	214	154	341	413	100	85	66	130
15	61	76	364	202	190	158	606	324	96	89	67	100
16	64	93	249	188	173	201	452	271	287	108	66	86
17	62	83	548	183	173	747	352	265	443	93	66	82
18	62	71	613	156	168	496	304	234	252	89	67	90
19	64	70	341	195	168	364	287	195	169	116	64	84
20	64	70	282	183	350	315	252	181	145	126	70	82
21	57	68	1.210	195	316	537	234	169	169	98	70	130
22	61	75	1.560	326	340	795	222	162	222	93	70	170
23	61	73	696	315	650	544	217	193	160	91	74	100
24	65	71	462	341	409	509	293	217	143	87	84	80
25	67	89	344	279	326	469	282	249	137	82	73	75
26	65	106	364	252	285	382	242	257	152	80	63	73
27	64	94	1.070	617	244	344	244	214	154	76	68	70
28	56	174	909	759	236	307	210	202	154	71	108	72
29	82	222	636	727	------	276	202	205	158	76	86	551
30	382	143	496	516	------	271	190	195	147	87	131	365
31	301	------	401	417	------	413	------	181	------	83	95	------
TOTAL	2.639	3.107	13.285	9.327	7.535	10.147	9.603	7.735	5.348	3.246	2.286	3.909
MEAN	85.1	104	429	301	269	327	320	250	178	105	73.7	130
MAX	382	222	1.560	759	650	795	606	654	443	176	131	551
MIN	56	68	91	156	168	154	190	162	96	71	60	64
MEAN†	70.9	96.5	426	301	269	327	320	248	176	103	71.1	119
CFSM†	.64	.88	3.87	2.74	2.45	2.97	2.91	2.25	1.60	.94	.65	1.08
IN.†	.74	.98	4.46	3.15	2.55	3.43	3.25	2.60	1.79	1.08	.75	1.21

CAL YR 1973 TOTAL 98.771 MEAN 271 MAX 1.620 MIN 56 MEAN† 267 CFSM† 2.43 IN† 32.98
WTR YR 1974 TOTAL 78.165 MEAN 214 MAX 1.560 MIN 56 MEAN† 211 CFSM† 1.92 IN† 25.99

PEAK DISCHARGE (BASE, 1,100 ft³/s, revised)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-21	2300	6.89	2,610				
12-27	0930	4.90	1,330				
3-21	1915	4.47	1,150				

† Adjusted for diversions from Mare Meadow Reservoir for Fitchburg and from Wachusett Reservoir and Southeast Well Field for Leominster; records furnished by municipalities.

01095500 SOUTH BRANCH NASHUA RIVER AT CLINTON, MASS.

LOCATION.--Lat 42°24'12", long 71°41'19", Worcester County, at Wachusett Dam, 1 mi (1.6 km) south of Clinton.

DRAINAGE AREA.--107.69 mi² (278.92 km²) since July 1937.

PERIOD OF RECORD.--July 1896 to current year.

AVERAGE DISCHARGE.--78 years, 188 ft³/s (5.324 m³/s), 23.71 in/yr (602 mm/yr), adjusted to present drainage area.

REMARKS.--Flow regulated by Wachusett Reservoir and several ponds. Records adjusted for change in contents in and wastage from Wachusett Reservoir and diversions from Ware River and Quabbin Reservoir on Swift River. Entire flow, except wastage, diverted for use of Boston metropolitan district and other municipalities.

COOPERATION.--Records furnished by Water Division of Metropolitan District Commission.

REVISIONS (WATER YEARS).--WSP 1051: 1928.

MONTHLY DISCHARGE AND RAINFALL, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

Month	Runoff (millions of gallons)	Discharge per square mile		Runoff (inches)	Rainfall (inches)
		Millions of gallons per day	Cubic feet per second		
October	616.0	0.185	0.29	0.33	4.03
November	1,205.0	.373	.58	.64	2.24
December	9,390.8	2.813	4.35	5.02	9.07
Calendar year 1973	63,215.0	1.608	2.49	33.78	53.01
January	6,816.9	2.042	3.16	3.64	3.48
February	5,749.4	1.907	2.95	3.07	2.84
March	7,713.5	2.311	3.57	4.12	4.92
April	7,091.3	2.195	3.40	3.79	3.64
May	4,898.1	1.467	2.27	2.62	4.52
June	2,064.3	.639	.99	1.10	3.89
July	812.9	.244	.38	.43	2.45
August	559.9	.168	.26	.30	2.59
September	1,663.2	.515	.80	.89	9.88
Water year 1974	48,581.3	1.236	1.91	25.96	53.55

01096000 SQUANNACOOK RIVER NEAR WEST GROTON, MASS.

LOCATION.--Lat 42°38'03", long 71°39'30", Middlesex County, on left bank 0.7 mi (1.1 km) downstream from Trout Brook and 2.7 mi (4.3 km) northwest of West Groton.

DRAINAGE AREA.--62.8 mi² (162.7 km²), excludes 2.10 mi² (5.44 km²) above outlet of Ashby (Fitchburg) Reservoir.

PERIOD OF RECORD.--October 1949 to current year.

GAGE.--Water-stage recorder. Datum of gage is 244.27 ft (74.453 m) above mean sea level.

AVERAGE DISCHARGE.--25 years, 108 ft³/s (3.059 m³/s), 23.35 in/yr (593 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,560 ft³/s (44.2 m³/s) Dec. 22 (gage height, 6.13 ft or 1.868 m); minimum daily, 8.9 ft³/s (0.25 m³/s) Aug. 23.

Period of record: Maximum discharge, 4,010 ft³/s (114 m³/s) Oct. 16, 1955 (gage height, 8.04 ft or 2.451 m), from rating curve extended above 2,200 ft³/s (62.3 m³/s); minimum daily, 2.0 ft³/s (0.057 m³/s) Sept. 7, 1965.

REMARKS.--Records good. Occasional regulation at low flow by mill above station; regulation greater prior to 1961. Entire flow from 2.10 mi² (5.44 km²) above outlet of Ashby (Fitchburg) Reservoir diverted for municipal supply of Fitchburg except during water years 1964, 1967-74.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	146	70	224	259	137	279	164	118	43	32	28
2	12	100	54	213	210	144	244	186	151	36	24	22
3	13	72	46	186	174	135	251	142	111	36	21	29
4	15	53	43	170	174	137	229	136	88	39	20	158
5	15	45	46	149	155	170	219	126	76	37	21	136
6	15	39	90	135	130	175	220	109	68	57	27	65
7	13	35	110	132	136	151	197	108	60	52	22	53
8	13	33	77	118	130	139	172	108	55	48	20	63
9	13	32	71	93	127	124	168	99	51	56	19	48
10	13	30	194	99	110	121	170	121	48	43	18	36
11	13	28	183	110	113	115	162	243	43	34	16	29
12	13	29	120	116	106	109	215	192	40	30	16	26
13	13	27	93	105	104	95	241	283	39	29	15	24
14	13	27	119	97	115	90	222	276	37	25	14	36
15	13	26	294	99	102	92	310	189	34	24	13	42
16	13	29	207	103	90	95	351	149	50	24	13	31
17	13	32	210	97	94	326	237	132	214	27	13	25
18	13	30	498	81	92	411	196	128	200	24	13	22
19	13	28	367	89	87	237	175	106	109	25	13	20
20	15	26	198	91	146	193	161	93	71	23	13	20
21	16	25	289	89	205	201	149	85	61	21	12	25
22	15	27	1,180	132	191	477	141	77	89	20	12	58
23	15	30	552	184	343	388	137	86	75	19	8.9	57
24	15	29	296	197	297	310	151	137	58	19	10	36
25	17	31	195	179	214	320	158	153	50	19	10	29
26	18	41	196	151	172	250	139	156	55	19	9.9	28
27	17	42	485	204	142	216	126	146	62	19	10	25
28	16	59	682	505	135	191	118	126	58	19	16	24
29	16	114	522	480	------	167	109	109	50	18	15	88
30	95	100	347	396	------	159	105	109	50	55	23	185
31	215	------	267	287	------	210	------	102	------	51	37	------
TOTAL	721	1,365	8,101	5,311	4,353	6,085	5,752	4,376	2,271	991	526.8	1,468
MEAN	23.3	45.5	261	171	155	196	192	141	75.7	32.0	17.0	48.9
MAX	215	146	1,180	505	343	477	351	283	214	57	37	185
MIN	12	25	43	81	87	90	105	77	34	18	8.9	20
CFSM	.37	.72	4.16	2.72	2.47	3.12	3.06	2.25	1.21	.51	.27	.78
IN.	.43	.81	4.80	3.15	2.58	3.60	3.41	2.59	1.35	.59	.31	.87

CAL YR 1973 TOTAL 56,294.0 MEAN 154 MAX 1,180 MIN 12 CFSM 2.45 IN 33.35
WTR YR 1974 TOTAL 41,320.8 MEAN 113 MAX 1,180 MIN 8.9 CFSM 1.80 IN 24.48

PEAK DISCHARGE (BASE, 700 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-22	1000	6.13	1,560				
12-28	0130	5.02	771				

01096500 NASHUA RIVER AT EAST PEPPERELL, MASS.

LOCATION.--Lat 42°40'03", long 71°34'32", Middlesex County, on right bank 200 ft (60 m) downstream from powerplant of Pepperell Paper Co. at East Pepperell and 0.8 mi (1.3 km) upstream from Nissitissit River.

DRAINAGE AREA.--Total above gage, 433 mi² (1,121 km²); net above gage, 316 mi² or 818 km² (flow diverted from 117 mi² or 303 km² for use of Boston metropolitan district and city of Worcester).

PERIOD OF RECORD.--October 1935 to current year.

GAGE.--Water-stage recorder. Datum of gage is 169.04 ft (51.523 m) above mean sea level.

AVERAGE DISCHARGE.--39 years, 528 ft³/s (14.95 m³/s), 22.69 in/yr (576 mm/yr), adjusted for wastage and since 1966 for diversion to Nashua River.

EXTREMES.--Current year: Maximum discharge, 3,650 ft³/s (103 m³/s) Dec. 23 (gage height, 7.00 ft or 2.134 m); minimum daily, 4.9 ft³/s (0.14 m³/s) Nov. 20.

Period of record: Maximum discharge, 20,900 ft³/s (592 m³/s) Mar. 20, 1936 (gage height, 19.1 ft or 5.82 m, from floodmarks), from rating curve extended above 12,000 ft³/s (340 m³/s) on basis of velocity-area studies; minimum daily, 1.1 ft³/s (0.031 m³/s) Aug. 13, 1939.

REMARKS.--Records good. Extremes and daily discharge include water wasted in diverting drainage from basin of South Branch Nashua River for use of Boston metroplitan district, water diverted into basin from Ware River basin since 1955 for municipal use of Fitchburg, and water diverted around station through plant of Pepperell Paper Co. Flow regulated by powerplant above station. Records of chemical analyses for the current year are published in Part 2 of this report.

REVISIONS.--WSP 801: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	145	791	394	1,310	1,280	757	1,120	647	615	337	221	153
2	195	620	307	1,190	1,130	739	1,100	868	674	381	212	163
3	195	477	251	1,090	970	722	1,080	764	716	341	57	60
4	163	384	223	997	941	702	1,170	685	674	195	14	331
5	188	345	282	925	871	723	1,080	664	620	408	169	610
6	74	328	307	835	752	732	1,050	654	535	408	134	431
7	7.4	300	600	742	752	728	1,010	402	371	479	14	231
8	172	230	412	705	747	694	878	616	310	451	205	191
9	201	230	296	640	676	654	832	574	245	451	97	205
10	185	126	747	445	639	634	873	590	251	397	14	213
11	182	28	853	675	622	618	855	744	360	371	15	213
12	182	268	705	715	601	462	966	891	385	367	196	155
13	66	303	398	700	588	258	1,120	1,100	287	113	207	116
14	7.0	258	590	444	600	266	1,140	1,460	235	23	60	12
15	112	233	991	535	602	494	1,190	1,160	242	269	24	181
16	53	223	931	590	588	588	1,530	905	82	431	19	324
17	237	220	949	585	581	679	1,300	781	907	196	105	221
18	237	261	1,770	571	497	1,580	1,020	745	1,130	269	142	60
19	191	120	1,610	321	458	1,320	894	675	775	231	48	121
20	128	4.9	1,100	337	584	845	833	551	649	72	22	174
21	82	47	1,100	600	955	861	760	420	447	23	16	173
22	227	240	2,600	660	967	1,700	714	385	374	286	167	279
23	254	237	3,510	841	1,260	2,050	708	619	483	408	81	331
24	230	142	2,540	919	1,590	1,690	697	474	664	227	11	331
25	227	18	1,530	910	1,220	1,450	729	623	471	160	13	241
26	223	363	1,190	822	990	1,280	759	746	371	157	113	207
27	204	314	1,690	860	854	1,080	728	745	371	64	145	208
28	185	416	2,700	1,700	786	958	716	733	374	15	166	208
29	182	416	2,690	2,160	------	857	468	478	373	154	218	293
30	286	494	2,080	2,010	------	782	519	624	178	238	182	1,280
31	753	------	1,570	1,570	------	887	------	589	------	73	154	------
TOTAL	5,773.4	8,436.9	36,916	27,404	23,101	27,790	27,839	21,912	14,169	7,995	3,241	7,716
MEAN	186	281	1,191	884	825	896	928	707	472	258	105	257
MAX	753	791	3,510	2,160	1,590	2,050	1,530	1,460	1,130	479	221	1,280
MIN	7.0	4.9	223	321	458	258	468	385	82	15	11	12
MEAN†	170	272	1,184	877	818	889	920	699	464	250	96.4	242
CFSM†	.54	.86	3.75	2.78	2.59	2.81	2.91	2.21	1.47	.79	.31	.77
IN.†	.62	.96	4.32	3.20	2.70	3.24	3.25	2.55	1.64	.91	.35	.85

CAL YR 1973 TOTAL 292,540.3 MEAN 801 MAX 3,720 MIN 4.9 MEAN† 793 CFSM† 2.51 IN† 34.06
WTR YR 1974 TOTAL 212,293.3 MEAN 582 MAX 3,510 MIN 4.9 MEAN† 573 CFSM† 1.81 IN† 24.60

† Adjusted for water wasted in diverting drainage from basin of South Branch Nashua River for use of Boston metroplitan district and for water diverted into basin from Ware River basin and for municipal supply of Fitchburg (figures represent discharge from net drainage area). Records of wastage furnished by Water Division of Metroplitan District Commission and records of diversion furnished by city of Fitchburg.

01096910 BOULDER BROOK AT EAST BOLTON, MASS.

LOCATION.--Lat 42°27'04", long 71°34'39", Worcester County, on right bank 900 ft (250 m) downstream from Interstate Highway 495, 0.9 mi (1.4 km) west of East Bolton, and 1.3 mi (2.1 km) upstream from mouth.

DRAINAGE AREA.--1.54 mi² (3.99 km²), revised.

PERIOD OF RECORD.--June 1971 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 290 ft (88 m) from topographic map.

EXTREMES.--Current year: Maximum discharge, 38 ft³/s (1.08 m³/s) Mar. 21 (gage height, 2.56 ft or 0.780 m), from rating curve extended above 19 ft³/s (0.54 m³/s); minimum, about 0.02 ft³/s (0.001 m³/s) about Aug. 13-17, 19-23.

Period of record: Maximum discharge, 71 ft³/s (2.01 m³/s) Mar. 22, 1972 (gage height, 2.76 ft or 0.841 m), from rating curve extended above 19 ft³/s (0.54 m³/s); minimum, 0.02 ft³/s (0.001 m³/s) Aug. 25-27, 1971, and about Aug. 13-17, 19-23, 1974.

REMARKS.--Records good except those for period of no gage-height record, which are fair. Records of chemical analyses and water temperatures for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.08	1.0	.54	3.6	5.1	3.8	6.4	5.9	3.8	.75	.08	.10
2	.08	.74	.44	3.4	4.0	3.6	5.3	3.6	3.0	.75	.07	.08
3	.08	.54	.42	3.0	4.2	3.4	5.3	3.4	2.3	.94	.09	.40
4	.08	.50	.42	3.0	4.2	3.4	4.8	3.6	1.9	.81	.10	.85
5	.21	.42	.54	2.9	3.6	3.4	4.8	2.8	1.6	1.3	.07	.35
6	.19	.38	1.7	3.0	3.2	2.8	4.8	2.7	1.4	2.4	.05	.25
7	.13	.35	.81	3.0	3.2	2.7	4.6	2.7	1.3	1.1	.05	1.5
8	.12	.32	.66	2.5	3.2	2.5	4.0	2.7	1.2	.81	.04	1.7
9	.12	.32	2.3	2.3	3.0	2.4	4.2	2.5	1.1	.70	.03	.50
10	.11	.32	2.8	2.5	2.7	2.5	4.4	4.2	.94	.55	.04	.22
11	.11	.26	1.5	2.5	2.5	2.3	5.3	4.2	.87	.43	.03	.17
12	.11	.26	1.1	2.6	2.5	2.2	7.0	3.2	.87	.35	.03	.15
13	.11	.26	.94	2.2	2.8	1.9	6.4	7.0	.81	.35	.02	.13
14	.11	.26	4.9	2.1	3.2	1.9	5.6	3.6	.75	.32	.02	.50
15	.11	.26	3.5	2.1	2.3	1.9	8.2	3.0	.70	.32	.02	.40
16	.11	.26	2.1	2.1	2.3	2.4	5.6	2.5	4.0	.29	.02	.15
17	.11	.23	11	2.1	2.3	11	4.8	2.5	6.2	.29	.02	.12
18	.11	.23	8.8	1.8	2.3	4.8	4.6	2.4	2.4	.26	.03	.10
19	.11	.23	4.6	2.3	2.2	3.8	5.1	2.2	1.5	.26	.02	.10
20	.11	.22	4.5	2.3	7.0	3.4	4.6	1.9	1.2	.35	.02	.10
21	.11	.19	12	2.5	4.4	12	4.2	1.9	1.2	.26	.02	1.0
22	.11	.38	8.7	5.3	5.9	10	3.8	1.9	1.2	.23	.02	3.5
23	.11	.39	6.0	4.2	7.5	7.9	4.2	2.4	1.2	.19	.02	1.5
24	.10	.33	4.8	4.4	4.4	7.9	4.2	2.8	1.0	.17	.03	.50
25	.10	.45	3.7	3.4	4.2	9.3	3.8	3.8	.87	.15	.04	.30
26	.10	.57	4.2	3.2	4.0	5.9	3.6	3.2	.87	.15	.03	.26
27	.10	.44	11	8.2	3.6	5.6	3.2	2.8	.94	.13	.03	.26
28	.10	1.0	7.2	7.5	3.8	4.8	3.0	2.5	.94	.13	.04	.32
29	.21	.97	4.4	7.5	------	4.0	2.8	2.5	.87	.13	.05	10
30	4.3	.67	4.2	6.2	------	4.2	2.7	2.7	.87	.13	.09	5.1
31	1.7	------	3.8	5.6	------	8.9	------	2.3	------	.11	.15	------
TOTAL	9.34	12.75	123.57	109.3	103.6	146.6	141.3	95.4	47.80	15.11	1.37	30.61
MEAN	.30	.43	3.99	3.53	3.70	4.73	4.71	3.08	1.59	.49	.044	1.02
MAX	4.3	1.0	12	8.2	7.5	12	8.2	7.0	6.2	2.4	.15	10
MIN	.08	.19	.42	1.8	2.2	1.9	2.7	1.9	.70	.11	.02	.08
CFSM	.19	.28	2.59	2.29	2.40	3.07	3.06	2.00	1.03	.32	.03	.66
IN.	.23	.31	2.98	2.64	2.50	3.54	3.41	2.30	1.15	.36	.03	.74

CAL YR 1973 TOTAL 1,075.05 MEAN 2.95 MAX 25 MIN .08 CFSM 1.92 IN 25.97
WTR YR 1974 TOTAL 836.75 MEAN 2.29 MAX 12 MIN .02 CFSM 1.49 IN 20.21

NOTE.--No gage-height record Aug. 13 to Sept. 25.

PEAK DISCHARGE (BASE, 28 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3-21	1715	2.56	38				

01097000 ASSABET RIVER AT MAYNARD, MASS.

LOCATION.--Lat 42°25'55", long 71°27'01", Middlesex County, on right bank at Maynard, 150 ft (46 m) upstream from bridge on State Highway 27, 1.7 mi (2.7 km) downstream from Assabet Brook, and 7.1 mi (11.4 km) upstream from confluence with Sudbury River.

DRAINAGE AREA.--116 mi² (300 km²).

PERIOD OF RECORD.--July 1941 to current year.

GAGE.--Water-stage recorder. Datum of gage is 142.12 ft (43.318 m) above mean sea level.

AVERAGE DISCHARGE.--33 years, 181 ft³/s (5.126 m³/s), 21.19 in/yr (538 mm/yr).

EXTREMES.--Current year: Maximum discharge, 830 ft³/s (23.5 m³/s) Mar. 23 (gage height, 4.65 ft or 1.417 m); minimum daily, 14 ft³/s (0.40 m³/s) Aug. 17, 20.
Period of record: Maximum discharge, 4,250 cfs (120 m³/s) Aug. 20, 1955 (gage height, 8.94 ft or 2.725 m); maximum gage height, 8.96 ft (2.731 m) Aug. 20, 1955 (backwater from debris); minimum daily discharge, 0.20 cfs (0.006 m³/s) Feb. 7, 1965.
Maximum discharge since at least 1886, that of Aug. 20, 1955.

REMARKS.--Records good. Occasional diurnal fluctuation at low flow by mills above station; greater regulation prior to 1969. High flow affected by retarding reservoirs since 1962. Records of suspended-sediment loads for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1231: 1945-46.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	82	287	129	395	425	295	445	262	189	81	34	64
2	79	238	124	376	373	284	445	271	231	77	38	53
3	82	167	122	348	315	273	405	246	223	84	38	62
4	81	115	109	324	309	267	380	238	187	93	39	141
5	84	93	109	301	292	262	358	226	155	109	36	173
6	79	83	173	278	276	254	345	203	133	194	34	155
7	75	72	187	262	273	238	324	194	119	201	34	159
8	69	69	169	244	259	220	292	189	109	178	31	178
9	66	62	189	208	252	208	333	177	103	146	29	173
10	68	69	292	194	233	206	349	184	93	150	28	133
11	46	69	318	215	218	196	367	224	84	127	28	98
12	41	64	292	220	206	187	389	244	80	94	28	71
13	41	60	244	205	203	178	423	324	74	77	25	67
14	41	57	241	190	215	164	434	378	64	67	23	81
15	37	55	327	187	218	169	477	339	62	62	21	111
16	35	55	370	191	196	173	499	260	84	60	15	113
17	34	53	459	190	189	358	456	223	225	60	14	86
18	37	52	607	170	185	491	391	200	330	59	24	69
19	39	52	607	182	180	469	363	180	298	56	17	62
20	40	50	516	203	327	373	360	160	210	51	14	58
21	41	48	501	213	452	392	349	148	171	48	16	67
22	41	58	615	259	462	674	319	142	143	44	15	155
23	41	65	657	315	539	806	302	141	131	43	20	167
24	39	63	535	355	578	661	325	161	115	40	38	148
25	39	75	428	358	480	551	339	194	107	37	40	105
26	39	91	380	324	405	476	319	207	105	39	36	84
27	42	94	448	364	345	418	284	201	102	40	39	74
28	39	115	539	512	312	376	256	194	98	41	36	69
29	42	146	539	607	------	342	238	180	96	43	45	228
30	167	141	483	562	------	315	226	182	91	45	64	505
31	257	------	421	491	------	373	------	178	------	39	75	------
TOTAL	1,943	2,718	11,130	9,243	8,717	10,649	10,792	6,650	4,212	2,485	974	3,709
MEAN	62.7	90.6	359	298	311	344	360	215	140	80.2	31.4	124
MAX	257	287	657	607	578	806	499	378	330	201	75	505
MIN	34	48	109	170	180	164	226	141	62	37	14	53
CFSM	.54	.78	3.09	2.57	2.68	2.97	3.10	1.85	1.21	.69	.27	1.07
IN.	.62	.87	3.57	2.96	2.80	3.42	3.46	2.13	1.35	.80	.31	1.19

CAL YR 1973 TOTAL 89,749 MEAN 246 MAX 1,140 MIN 34 CFSM 2.12 IN 28.78
WTR YR 1974 TOTAL 73,222 MEAN 201 MAX 806 MIN 14 CFSM 1.73 IN 23.48

01097300 NASHOBA BROOK NEAR ACTON, MASS.

LOCATION.--Lat 42°30'39", long 71°24'25", Middlesex County, on right bank 1,500 ft (450 m) downstream from dam at North Acton, 2.2 mi (3.5 km) northeast of Acton, and 5 mi (8 km) upstream from mouth.

DRAINAGE AREA.--12.7 mi² (32.9 km²).

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1962-63. July 1963 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 155 ft (47 m) from topographic map.

AVERAGE DISCHARGE.--11 years, 17.7 ft³/s (0.501 m³/s), 18.93 in/yr (481 mm/yr).

EXTREMES.--Current year: Maximum discharge, 120 ft³/s (3.40 m³/s) Mar. 22 (gage height, 3.84 ft or 1.170 m); minimum, 0.19 ft³/s (0.005 m³/s) Aug. 22, 23.

Period of record: Maximum discharge, 360 ft³/s (10.2 m³/s) Mar. 19, 1968 (gage height, 5.07 ft or 1.545 m); minimum, 0.02 ft³/s (0.001 m³/s) Sept. 6, 1968.

REMARKS.--Records good. Occasional regulation since 1967 by small pond above station. Records of chemical analyses and water temperatures for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.9	37	13	46	48	30	53	24	19	6.4	1.1	1.6
2	1.8	31	10	44	44	29	46	34	37	6.2	.88	1.2
3	1.7	23	8.8	41	36	27	41	27	31	6.0	.97	6.0
4	1.7	15	7.9	36	29	26	38	26	21	6.0	1.4	7.5
5	1.7	10	8.1	32	26	26	36	24	16	6.2	1.2	6.8
6	2.2	8.1	17	28	24	25	34	21	13	9.0	.88	3.5
7	2.5	7.0	23	26	23	23	31	19	11	10	.64	7.0
8	2.4	6.4	16	24	22	21	27	19	9.9	7.4	.49	8.0
9	2.2	6.1	15	21	22	19	26	17	8.3	6.4	.33	5.0
10	1.9	5.7	31	19	21	18	32	18	6.8	6.0	.33	3.8
11	1.8	5.2	34	20	20	17	33	26	7.0	5.5	.33	2.9
12	1.8	4.9	32	20	19	16	38	26	7.2	4.8	.28	2.5
13	1.7	4.8	20	20	19	15	44	44	7.2	4.3	.97	2.6
14	1.8	4.7	25	19	20	13	44	51	6.6	3.8	.59	5.6
15	1.6	4.6	39	18	20	13	47	36	6.6	3.3	.26	5.0
16	1.5	4.4	37	18	18	14	50	27	6.6	2.9	.24	3.5
17	1.4	4.3	45	17	17	44	38	22	16	3.7	.23	2.7
18	1.5	4.2	98	16	16	78	32	21	28	4.0	.26	2.3
19	1.4	4.1	84	17	16	58	28	19	17	2.5	.26	2.1
20	2.0	4.1	55	18	39	41	27	16	11	2.6	.24	2.0
21	2.5	4.1	55	20	65	41	27	15	9.9	2.6	.24	7.0
22	2.1	4.4	97	27	60	101	23	14	9.6	2.5	.21	15
23	1.9	5.5	83	38	79	90	22	14	9.4	2.4	.21	11
24	1.9	5.9	58	49	71	65	31	19	8.3	2.2	.28	6.6
25	1.8	6.3	43	49	54	52	36	26	7.4	2.1	.38	5.0
26	1.8	6.9	36	42	41	42	30	31	7.8	2.6	.33	4.3
27	2.0	7.7	62	47	35	37	25	30	8.5	1.9	.33	3.8
28	1.8	9.3	89	83	31	33	22	25	8.0	1.1	.38	3.4
29	1.7	20	77	83	------	29	19	21	7.2	1.1	.59	35
30	6.4	19	62	72	------	26	18	21	7.0	1.2	1.1	109
31	37	------	52	58	------	37	------	19	------	1.2	1.7	------
TOTAL	97.4	283.7	1,332.8	1,068	935	1,106	998	752	369.3	127.9	17.63	281.7
MEAN	3.14	9.46	43.0	34.5	33.4	35.7	33.3	24.3	12.3	4.13	.57	9.39
MAX	37	37	98	83	79	101	53	51	37	10	1.7	109
MIN	1.4	4.1	7.9	16	16	13	18	14	6.6	1.1	.21	1.2
CFSM	.25	.74	3.39	2.72	2.63	2.81	2.62	1.91	.97	.33	.04	.74
IN.	.29	.83	3.90	3.13	2.74	3.24	2.92	2.20	1.08	.37	.05	.83

CAL YR 1973 TOTAL 9,478.98 MEAN 26.0 MAX 201 MIN .98 CFSM 2.05 IN 27.77
WTR YR 1974 TOTAL 7,369.43 MEAN 20.2 MAX 109 MIN .21 CFSM 1.59 IN 21.59

PEAK DISCHARGE (BASE, 90 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-18	1600	3.80	113	3-22	1415	3.84	120
12-22	1015	3.75	106	9-30	0830	3.77	117
12-28	0700	3.65	94				

01097500 SUDBURY RIVER AT FRAMINGHAM CENTER, MASS.

LOCATION.--Lat 42°17'29", long 71°26'335", Middlesex County, at dam of Framingham Reservoir No. 1, 0.5 mi (0.8 km) upstream from outlet of Farm Pond and 0.8 mi (1.3 km) sowuthwest of Framingham Center.

DRAINAGE AREA.--75.2 mi^2 (194.8 km^2) silnce January 1881.

PERIOD OF RECORD.--January 1875 to currrent year.

AVERAGE DISCHARGE.--99 years, 114 ft^3//s (3.228 m^3/s), 20.59 in/yr (523 mm/yr), adjusted to present drainage area.

REMARKS.--Records adjusted for change in reservoir contents, diversions, and wastage. Flow diverted as needed for use of Boston metropolitan district. Part of flow froom Wachusett Reservoir on South Branch Nashua River is diverted into Sudbury Reservoir en route to Boston metropolitan district.

COOPERATION.--Records furnished by Waiter Division of Metropolitan District Commission.

REVISIONS (WATER YEARS).--WSP 1051: 1937.

MONTHLY DISCHARGE AND RAINFALL, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

Month	Runoff (millions of gallons)	Discharge per square mile		Runoff (inches)	Rainfall (inches)
		Millions of gallons per day	Cubic feet per second		
October	391.3	0.168	0.26	0.30	3.28
November	1,231.7	.546	.84	.94	2.00
December	5,734.7	2.460	3.81	4.39	7.92
Calendar year 1974	35,666.5	1.299	2.01	27.29	47.05
January	4,505.4	1.933	2.99	3.45	3.59
February	4,539.0	2.156	3.34	3.47	3.36
March	5,234.3	2.245	3.47	4.01	4.62
April	4,499.6	1.995	3.09	3.44	4.00
May	3,143.6	1.348	2.09	2.41	4.34
June	1,357.6	.602	.93	1.04	2.90
July	388.7	.167	.26	.30	2.55
August	81.9	.035	.05	.06	3.46
September	1,172.1	.520	.80	.90	8.20
Water year 1974	32,279.9	1.176	1.82	24.70	50.22

01099500 CONCORD RIVER BELOW RIVER MEADOW BROOK, AT LOWELL, MASS.

LOCATION.--Lat 42°38'12", long 71°18'09", Middlesex County, on right bank 300 ft (90 m) downstream from Rogers Street Bridge at Lowell, 0.3 mi (0.5 km) downstream from River Meadow Brook, and 0.8 mi (1.3 km) upstream from mouth.

DRAINAGE AREA.--Total above gage, 405 mi² (1,049 km²); net above gage, 312 mi² (808 km²) - diversion as needed from 92.6 mi² (239.8 km²) for use of Boston metropolitan district.

PERIOD OF RECORD.--October 1936 to current year. October, November 1936 monthly discharge only, published in WSP 1301.

GAGE.--Water-stage recorder. Datum of gage is 67.41 ft (20.547 m) above mean sea level, datum of 1929.

AVERAGE DISCHARGE.--38 years, 457 ft³/s (12.94 m³/s), 19.89 in/yr (505 mm/yr), adjusted to net drainage area.

EXTREMES.--Current year: Maximum discharge, 1,730 ft³/s (49.0 m³/s) Dec. 27 (gage height, 6.70 ft or 2.042 m); minimum daily, 41 ft³/s (1.16 m³/s) Aug. 23.
Period of record: Maximum discharge, 4,800 ft³/s (136 m³/s) Mar. 22, 1968 (gage height, 9.16 ft or 2.792 m); minimum daily, 4.0 ft³/s (0.11 m³/s) Sept. 29, 1957.

REMARKS.--Records good except those for periods of no gage-height record, which are fair. Daily discharge includes water released from 92.6 mi² (239.8 km²) in basins of Sudbury River and Lake Cochituate. Prior to December 1961, water diverted above station for use of city of Lowell. Low flow regulated by mills above station. Records of suspended-sediment loads for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	146	676	462	1,580	1,500	1,370	1,340	961	660	245	44	100
2	144	674	465	1,520	1,450	1,270	1,350	918	702	226	42	150
3	174	672	366	1,440	1,390	1,210	1,300	844	646	214	41	170
4	145	562	355	1,390	1,420	1,150	1,320	812	641	228	47	250
5	141	583	407	1,320	1,260	1,120	1,290	882	659	232	43	310
6	142	530	482	1,250	1,220	1,100	1,230	858	624	399	40	300
7	146	474	644	1,190	1,170	1,050	1,200	737	580	438	44	160
8	174	434	608	1,120	1,100	932	1,140	868	591	455	43	130
9	173	316	545	999	1,030	882	1,120	735	504	447	79	320
10	145	322	531	934	1,020	858	1,180	720	475	412	76	400
11	142	286	549	863	955	916	1,140	758	411	354	76	280
12	157	268	713	870	942	774	1,220	768	344	321	72	200
13	153	258	715	879	862	732	1,220	949	355	251	56	190
14	157	241	774	859	816	704	1,230	862	293	238	63	240
15	135	231	801	844	861	866	1,320	1,000	228	203	57	270
16	132	220	811	825	844	736	1,330	860	286	205	53	230
17	124	226	1,090	780	811	916	1,320	959	340	234	51	240
18	125	226	1,330	780	761	970	1,240	841	481	188	48	200
19	125	214	1,360	748	755	1,020	1,250	838	500	172	47	180
20	124	217	1,390	759	771	1,030	1,200	774	502	155	46	173
21	131	209	1,510	757	876	1,250	1,170	751	476	160	46	191
22	133	207	1,600	827	1,040	1,430	1,140	888	438	138	43	310
23	134	215	1,670	891	1,140	1,550	1,110	861	406	131	41	364
24	134	220	1,610	985	1,330	1,620	1,110	857	375	120	46	345
25	132	236	1,620	1,010	1,340	1,620	1,080	882	341	114	47	308
26	132	266	1,570	1,020	1,420	1,590	1,080	870	331	112	44	289
27	131	280	1,700	1,140	1,420	1,520	1,050	883	321	108	42	234
28	127	368	1,720	1,240	1,380	1,430	1,020	877	301	104	56	500
29	126	424	1,710	1,380	------	1,350	973	865	284	103	72	800
30	286	668	1,690	1,450	------	1,290	926	655	284	102	150	400
31	447	------	1,630	1,500	------	1,320	------	661	------	103	180	------
TOTAL	5,180	10,573	32,538	33,164	31,104	35,314	35,724	24,563	13,445	6,896	2,249	9,047
MEAN	167	352	1,050	1,070	1,111	1,139	1,191	792	448	222	72.5	302
MAX	447	676	1,720	1,580	1,500	1,620	1,350	1,000	702	455	180	800
MIN	125	207	366	748	755	698	926	541	228	102	41	150
MEAN†	120	270	746	758	814	856	879	621	373	163	56.1	228
CFSM†	.38	.87	2.45	2.43	2.61	2.74	2.82	1.99	1.20	.52	.18	.73
IN.†	.45	.97	2.83	2.80	2.72	3.17	3.14	2.29	1.33	.60	.21	.82

CAL YR 1973 TOTAL 274,757 MEAN 753 MAX 2,200 MIN 125 MEAN† 586 CFSM† 1.87 IN† 25.42
WTR YR 1974 TOTAL 239,854 MEAN 657 MAX 1,720 MIN 41 MEAN† 490 CFSM† 1.57 IN† 21.32

† Adjusted for water released from 92.6 mi² in basins of Sudbury River and Lake Cochituate (figures represent net discharge from net drainage area). Records of released water furnished by Water Division of Metropolitan District Commission.

NOTE.--No gage-height record Aug. 30 to Sept. 19, Sept. 28-30.

01100000 MERRIMACK RIVER BELOW CONCORD RIVER, AT LOWELL, MASS.

LOCATION.--Lat 42°38'45", long 71°17'56", Middlesex County, on right bank at Lowell, 1,100 ft (350 m) downstream from Concord River.

DRAINAGE AREA.--Total above gage, 4,635 mi² (12,005 km²); net above gage, 4,425 mi² (11,461 km²) - diversions as needed from 210 mi² (544 km²) for use of Boston metropolitan district and city of Worcester.

PERIOD OF RECORD.--June 1923 to current year.

GAGE.--Water-stage recorder. Datum of gage is 5.18 ft (1.579 m) above mean sea level. Prior to Mar. 7, 1934, at Boott Mills 1,800 ft (550 m) upstream and 700 ft (200 m) above mouth of Concord River, in same gage pool and at same datum; gage-height record (furnished by Proprietors of the Locks and Canals on Merrimack River) was indicative of flow including that of Concord River.

AVERAGE DISCHARGE.--51 years, 7,200 ft³/s (203.9 m³/s) 22.10 in/yr (561 mm/yr), adjusted for water released from 210 mi² (544 km²).

EXTREMES.--Current year: Maximum discharge, 46,600 ft³/s (1,320 m³/s) Dec. 23 (gage height, 51.75 ft or 15.773 m); minimum daily, 559 ft³/s (15.8 m³/s) Aug. 25.
Period of record: Maximum discharge, 173,000 ft³/s (4,900 m³/s) Mar. 20, 1936 (gage height, 68.4 ft or 20.85 m, from floodmarks); minimum daily, 199 ft³/s (5.64 m³/s) Sept. 23, 1923.
Maximum discharge since 1735, that of Mar. 20, 1936.

REMARKS.--Records excellent. Daily discharge includes water released from 210 mi² (544 km²) in basins of Sudbury and South Branch Nashua Rivers and Lake Cochituate. Flow regulated by powerplants, by Franklin Falls Reservoir since 1942, and by Squam, Newfound, Winnipesaukee, Winnisquam, and other lakes and reservoirs above station. See page 70 for description and monthend usable contents of many of these reservoirs. Records of chemical analyses for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,860	8,620	7,720	22,800	19,400	9,280	11,700	14,000	10,400	3,830	1,600	1,340
2	2,850	8,590	6,570	20,000	17,200	9,120	11,800	16,300	10,500	3,560	1,640	1,340
3	2,750	8,500	5,090	18,100	15,300	9,080	13,900	16,900	10,800	3,610	1,330	2,170
4	2,660	8,300	5,160	15,900	13,500	9,000	15,200	14,500	10,000	2,610	1,270	3,850
5	2,250	6,310	4,660	15,000	12,100	8,920	17,600	14,000	8,800	3,450	1,780	4,370
6	1,530	4,610	5,210	13,700	9,360	10,200	22,700	13,600	7,930	2,810	1,830	5,400
7	1,590	4,590	7,790	12,900	11,000	12,200	28,300	12,100	7,250	4,090	2,010	5,290
8	3,240	4,100	9,260	12,000	10,800	14,100	25,600	10,600	5,940	4,550	2,130	4,890
9	3,110	3,700	8,220	9,600	10,200	14,700	21,300	10,900	5,230	4,400	2,140	4,160
10	2,840	3,300	8,360	8,440	9,800	14,100	19,100	10,900	5,150	3,780	1,470	3,780
11	2,880	3,190	10,500	9,200	9,480	11,500	16,800	13,300	4,130	3,240	1,390	2,960
12	2,540	3,730	11,800	10,700	9,120	10,000	16,000	16,800	4,330	3,010	1,970	2,520
13	2,070	2,940	9,720	10,000	8,440	8,850	16,200	18,800	3,800	2,590	1,790	2,400
14	2,370	2,880	8,760	9,000	7,900	6,920	16,700	22,900	3,310	2,450	1,540	1,800
15	2,670	2,920	13,300	8,600	7,580	7,270	18,500	23,400	3,100	2,470	1,410	1,750
16	2,490	2,890	19,500	8,880	6,950	6,980	26,200	19,500	3,120	2,260	1,100	2,430
17	2,420	2,880	18,800	8,200	7,230	11,000	29,400	16,000	4,030	2,290	750	2,470
18	2,490	3,790	21,300	7,200	7,160	22,800	26,000	13,400	5,860	2,110	668	2,260
19	2,500	4,420	23,000	7,400	6,670	23,000	21,900	13,900	6,640	2,040	1,210	2,100
20	1,830	4,150	19,400	6,900	8,000	18,600	20,000	12,200	6,800	1,650	1,130	2,090
21	1,650	3,160	16,900	7,760	8,640	15,800	17,800	10,400	5,860	1,470	1,120	2,050
22	2,560	2,220	33,500	8,800	10,100	16,800	15,300	9,140	4,910	1,890	1,130	2,180
23	2,510	3,090	45,500	10,500	11,500	17,300	14,700	8,330	4,270	1,980	1,210	2,880
24	2,530	2,880	41,200	12,700	14,500	16,600	17,100	8,670	4,730	1,900	855	4,190
25	2,540	2,990	37,800	13,400	14,900	16,200	19,700	11,200	4,280	1,790	559	4,120
26	2,440	3,500	32,100	13,000	13,800	15,600	19,400	14,200	3,750	1,680	1,320	3,510
27	1,800	4,010	27,400	13,000	11,900	14,800	15,800	15,200	3,290	1,410	1,250	2,930
28	2,040	4,720	31,800	16,900	10,400	13,200	13,700	15,900	3,290	1,200	1,270	2,090
29	2,780	5,820	35,400	21,700	------	11,700	12,400	14,100	3,440	1,550	1,310	3,280
30	3,000	7,210	32,100	23,300	------	10,800	11,500	12,100	3,750	1,520	1,500	5,600
31	5,480	------	27,400	21,200	------	11,300	------	11,400	------	1,590	1,330	------
TOTAL	79,470	134,010	585,220	396,780	302,930	397,720	552,300	434,640	169,190	78,780	43,012	92,200
MEAN	2,564	4,467	18,880	12,800	10,820	12,830	18,410	14,020	5,640	2,541	1,387	3,073
MAX	5,480	8,620	45,500	23,300	19,400	23,000	29,400	23,400	10,900	4,550	2,140	5,600
MIN	1,530	2,220	4,660	6,900	6,670	6,920	11,500	8,330	3,100	1,200	559	1,340
MEAN†	2,510	4,378	18,590	12,480	10,510	12,540	18,090	13,860	5,555	2,474	1,363	2,992
CFSM†	.57	.99	4.20	2.82	2.38	2.83	4.09	3.13	1.26	.56	.31	.68
IN.†	.65	1.10	4.84	3.25	2.48	3.27	4.56	3.61	1.40	.64	.36	.75

CAL YR 1973 TOTAL 4,350,568 MEAN 11,920 MAX 45,500 MIN 668 MEAN† 11,740 CFSM† 2.65 IN† 36.03
WTR YR 1974 TOTAL 3,266,252 MEAN 8,949 MAX 45,500 MIN 559 MEAN† 8,774 CFSM† 1.98 IN† 26.92

† Adjusted for water released from 210 mi² in basins of Sudbury and South Branch Nashua Rivers and Lake Cochituate (figures represent net discharge from net drainage area). Records of released water furnished by Water Division of Metropolitan District Commission.

NOTE.--Discharge in cubic feet per second per square mile and runoff in inches may not represent natural flow because of regulation.

01100600 SHAWSHEEN RIVER NEAR WILMINGTON, MASS.

LOCATION.--Lat 42°34'05", long 71°12'55", Middlesex County, on right bank at downstream side of bridge on State Highway 129, 1 mi (1.6 km) upstream from Content Brook, and 2.5 mi (4.0 km) northwest of Wilmington.

DRAINAGE AREA.--35.3 mi² or 91.4 km² (revised).

PERIOD OF RECORD.--November 1963 to current year.

GAGE.--Water-stage recorder. Datum of gage is 80.44 ft (24.518 m) above mean sea level.

AVERAGE DISCHARGE.--10 years (1964-74), 54.1 ft³/s (1.532 m³/s), 20.81 in/yr (529 mm/yr), adjusted for diversion.

EXTREMES.--Current year: Maximum discharge, 449 ft³/s (12.7 m³/s) Dec. 18 (gage height, 6.41 ft or 1.954 m); minimum, 5.0 ft³/s (0.14 m³/s) Aug. 15-17.
Period of record: Maximum discharge, 1,050 ft³/s (29.7 m³/s) Mar. 19, 1968 (gage height, 8.60 ft or 2.621 m); minimum, 1.2 ft³/s (0.034 m³/s) Aug. 30, 31, Sept. 1, 2-4, 1966.

REMARKS.--Records good. Diversion above station at times during period January through June each year since 1973 for municipal supply of Burlington.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	112	49	95	98	73	124	59	51	13	7.2	14
2	10	93	35	88	84	71	120	85	81	18	6.9	11
3	11	74	29	78	65	67	99	82	92	20	6.3	12
4	12	54	27	71	65	65	90	69	71	22	7.6	29
5	13	36	28	62	65	65	85	62	51	21	7.8	31
6	14	26	47	57	63	65	82	53	41	31	6.9	19
7	13	23	62	52	59	61	80	50	36	56	6.6	29
8	12	20	64	50	58	57	74	53	34	58	6.4	50
9	11	19	52	41	57	54	61	53	32	43	6.4	48
10	11	18	73	38	53	52	99	54	28	31	6.5	30
11	10	16	104	39	50	50	138	88	20	23	5.8	22
12	10	16	92	41	50	48	109	104	18	20	5.6	19
13	9.9	16	71	40	49	46	106	145	17	17	5.5	17
14	9.7	16	61	38	53	44	97	202	15	15	5.5	25
15	9.1	16	111	37	52	43	99	130	13	13	5.2	29
16	8.1	16	135	37	48	44	114	88	14	14	5.0	20
17	8.1	15	135	37	50	74	91	62	36	35	5.0	16
18	7.9	14	379	34	47	162	72	53	58	24	5.7	15
19	8.4	14	275	33	44	128	61	45	56	18	7.9	15
20	9.1	14	157	36	89	93	64	44	43	21	6.5	15
21	10	13	122	39	233	83	59	41	41	18	6.0	17
22	11	16	202	50	185	298	55	40	41	14	5.7	53
23	10	23	178	76	176	263	54	41	37	12	5.6	71
24	9.7	21	121	123	178	150	66	52	32	11	9.0	67
25	8.7	22	92	124	128	109	77	65	29	9.4	9.6	39
26	8.6	28	78	102	101	92	75	72	29	8.7	7.9	26
27	8.6	29	107	97	87	81	62	73	28	8.2	7.2	22
28	8.4	33	188	176	72	74	53	65	20	7.9	6.9	20
29	8.7	50	157	171	------	67	48	55	17	7.9	8.7	66
30	30	57	124	140	------	62	47	53	16	7.9	15	219
31	89	------	104	115	------	75	------	51	------	7.5	19	------
TOTAL	411.0	920	3,459	2,217	2,359	2,716	2,461	2,189	1,097	625.5	226.9	1,066
MEAN	13.3	30.7	112	71.5	84.3	87.6	82.0	70.6	36.6	20.2	7.32	35.5
MAX	89	112	379	176	233	298	138	202	92	58	19	219
MIN	7.9	13	27	33	44	43	47	40	13	7.5	5.0	11
MEAN†	13.3	30.7	112	82.7	84.3	87.6	85.4	70.6	37.6	20.2	7.32	35.5
CFSM†	.38	.87	3.17	2.34	2.39	2.48	2.42	2.00	1.07	.57	.21	1.01
IN.†	.43	.97	3.65	2.70	2.49	2.86	2.70	2.31	1.19	.66	.24	1.12

CAL YR 1973 TOTAL 24,634.0 MEAN 67.5 MAX 514 MIN 7.9 MEAN† 70.3 CFSM† 1.99 IN† 27.05
WTR YR 1974 TOTAL 19,747.4 MEAN 54.1 MAX 379 MIN 5.0 MEAN† 55.4 CFSM† 1.57 IN† 21.32

† Adjusted for diversion for municipal supply of Burlington; records furnished by town of Burlington.

PEAK DISCHARGE (BASE, 300 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-18	1400	6.41	449				
3-22	1900	6.07	380				

01100700 EAST MEADOW RIVER NEAR HAVERHILL, MASS.

LOCATION.--Lat 42°48'41", long 71°01'59", Essex County, on left bank 10 ft (3 m) downstream from culvert on State Highway 110 and 3.5 mi (5.6 km) northeast of Haverhill.

DRAINAGE AREA.--4.93 mi² (12.77 km²).

PERIOD OF RECORD.--October 1962 to September 1974 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 50 ft (15 m) from topographic map.

AVERAGE DISCHARGE.--11 years (1963-74), 9.01 ft³/s (0.255 m³/s), 24.82 in/yr (630 mm/yr).

EXTREMES.--Current year: Maximum discharge, 65 ft³/s (1.84 m³/s) Sept. 30 (gage height, 4.15 ft or 1.265 m); maximum gage height, 4.31 ft (1.314 m) Dec. 18; minimum discharge, 0.09 ft³/s (0.003 m³/s) July 18, 19.

Period of record: Maximum discharge, 211 ft³/s (5.98 m³/s) Mar. 19, 1968 (gage height, 5.45 ft or 1.661 m); minimum, 0.05 ft³/s (0.001 m³/s) Sept. 5, 6, 1963.

REMARKS.--Records fair. Recording rain gage at station since March 1963 (no winter records). Records of chemical analyses for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.31	16	5.3	9.5	17	9.3	31	19	9.5	1.5	.19	.64
2	.31	14	3.7	9.3	12	9.8	22	22	16	1.1	.16	.38
3	.53	9.5	2.9	7.8	9.0	9.8	20	12	9.5	1.0	.16	.93
4	.79	6.2	2.8	6.8	9.0	9.3	19	12	7.2	.86	.16	5.8
5	.69	4.7	3.8	5.7	8.5	9.8	18	11	6.2	.79	.16	4.4
6	.66	3.9	11	5.0	7.6	11	18	8.8	5.5	1.3	.19	1.6
7	.93	3.3	11	4.8	6.8	10	15	8.8	4.8	.86	.19	4.5
8	.68	3.1	6.8	4.1	7.0	9.0	12	9.8	4.7	.66	.19	9.3
9	.68	3.0	8.3	3.3	7.0	7.6	12	8.3	4.4	.48	.19	2.4
10	.48	2.8	21	3.0	6.8	7.2	16	11	3.8	.38	.19	1.3
11	.68	2.5	17	[illegible]	[illegible]	7.0	17	[illegible]	3.5	[illegible]	.19	1.0
12	.68	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
13	.68	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
14	.68	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
15	.53	1.9	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
16	.38	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
17	.38	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
18	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
19	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
20	.93	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
21	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
22	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
23	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
24	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
25	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
26	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
27	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
28	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
29	[illegible]	[illegible]	[illegible]	[illegible]	-------	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
30	[illegible]	[illegible]	[illegible]	[illegible]	-------	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
31	[illegible]	-------	[illegible]	[illegible]	-------	[illegible]	-------	[illegible]	-------	[illegible]	[illegible]	-------
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

[illegible]

[illegible]

PEAK DISCHARGE [illegible]

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
9-30	[illegible]	4.15	65				

Reservoirs in Merrimack River basin

01077500 **NEWFOUND LAKE** on Newfound River, 1.7 mi (2.7 km) north of Bristol, N.H., used for recreation and for storage of water for power, has usable capacity of 1,690,000,000 ft³ (47,900,000 m³). Records furnished by Public Service Co. of New Hampshire.

01078500 **FRANKLIN FALLS RESERVOIR** on Pemigewasset River, 2 mi (3 km) north of Franklin, N.H., completed in 1942, used for flood control, has usable capacity of 6,700,000,000 ft³ (190,000,000 m³). Records furnished by Corps of Engineers.

01079000 **MERRYMEETING LAKE** on Merrymeeting River, 2.5 mi (4.0 km) northeast of Alton, N.H., used for recreation and for storage of water for power, has usable capacity of 368,000,000 ft³ (10,400,000 m³). Records furnished by New Hampshire Fish and Game Department.

01079500 **LAKE WENTWORTH** above Lake Winnipesaukee at Wolfeboro Falls, N.H., used for recreation and for storage of water for power, has usable capacity of 854,000,000 ft³ (24,200,000 m³).

01080000 **LAKE WINNIPESAUKEE** on Winnipesaukee River (see p. 38).

01082500 **EDWARD MACDOWELL RESERVOIR** on Nubanusit Brook, at West Peterborough, N.H., 2 mi (3 km) northwest of Peterborough, completed in 1950, used for flood control, has usable capacity of 558,000,000 ft³ (15,800,000 m³). Records furnished by Corps of Engineers.

01085400 **HOPKINTON LAKE** on Contoocook River, at West Hopkinton, N.H., completed in 1962, used for flood control and recreation, has usable capacity of 3,084,000,000 ft³ (87,340,000 m³). Records furnished by Corps of Engineers.

01086500 **BLACKWATER RESERVOIR** on Blackwater River, at Swett's Mills, 1 mi (2 km) south of Webster, N.H., completed in 1941, used for flood control, has usable capacity of 2,004,000,000 ft³ (56,750,000 m³). Records furnished by Corps of Engineers.

01090700 **EVERETT LAKE** on Piscataquog River, 1.3 mi (2.1 km) southeast of East Weare, N.H., completed in 1962, used for flood control and recreation, has usable capacity of 3,768,000,000 ft³ (106,700,000 m³). Records furnished by Corps of Engineers.

Hopkinton and Everett Lakes, connected by a canal, are operated as a unit above elevation 400.00 ft (121.920 m). Diversion from Hopkinton Lake to Everett Lake in March 1968, April 1969.

01092500 **TOWER HILL POND** on Maple Falls Brook, 2.3 mi (3.7 km) north of Auburn, N.H., completed in 1939, used for storage of water for municipal supply and for power, has usable capacity of 182,000,000 ft³ (5,150,000 m³). Records furnished by Manchester Water Works.

01093500 **MASSABESIC LAKE** on Cohas Brook, 2.5 mi (4.0 km) southeast of Manchester, N.H., used for storage of water for municipal supply, has usable capacity of 724,000,000 ft³ (20,500,000 m³). Records furnished by Manchester Water Works.

MONTHEND USABLE CONTENTS, IN MILLIONS OF CUBIC FEET, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	Newfound Lake	Franklin Falls Reservoir	Merrymeeting Lake	Lake Wentworth	Edward MacDowell Reservoir
Sept. 30, 1973	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Oct. 31	911	[illegible]	[illegible]	[illegible]	[illegible]
Nov. 30	1,061	214	[illegible]	[illegible]	[illegible]
Dec. 31	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Jan. 31, 1974	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Feb. 28	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Mar. 31	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Apr. 30	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
May 31	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
June 30	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
July 31	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Aug. 31	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Sept. 30	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

	Hopkinton Lake	Blackwater Reservoir	Everett Lake	Tower Hill Pond	Massabesic Lake
Sept. 30, 1973	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Oct. 31	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Nov. 30	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Dec. 31	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Jan. 31, 1974	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Feb. 28	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Mar. 31	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Apr. 30	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
May 31	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
June 30	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
July 31	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Aug. 31	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Sept. 30	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

01101000 PARKER RIVER AT BYFIELD, MASS.

LOCATION.--Lat 42°45'10", long 70°56'46", Essex County, on left bank 1,400 ft (450 m) downstream from dam, 0.5 mi (0.8 km) south of Byfield, 0.7 mi (1.1 km) upstream from Wheeler Brook, and 5.5 mi (8.8 km) southwest of Newburyport.

DRAINAGE AREA.--21.6 mi^2 (55.9 km^2).

PERIOD OF RECORD.--October 1945 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 23.46 ft (7.151 m) above mean sea level (levels by Massachusetts Department of Public Works).

AVERAGE DISCHARGE.--29 years, 35.7 ft^3/s (1.011 m^3/s), 22.44 in/yr (570 mm/yr).

EXTREMES.--Current year: Maximum discharge, 114 ft^3/s (3.23 m^3/s) Dec. 22, Jan. 29 (gage height, 2.97 ft or 0.905 m); maximum gage height, 3.13 ft (0.954 m) Dec. 19 (backwater from ice); minimum daily discharge, 0.58 ft^3/s (0.016 m^3/s) Aug. 27.
Period of record: Maximum discharge, 489 ft^3/s (13.8 m^3/s) Mar. 19, 1968 (gage height, 5.61 ft or 1.710 m); minimum daily, 0.09 ft^3/s (0.003 m^3/s) Sept. 25-30, Oct. 3-6, 1957.

REMARKS.--Records excellent except those below 10 ft^3/s (0.28 m^3/s), which are good. Some regulation at low flow by mill and ponds above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.9	17	23	88	90	65	72	55	45	12	2.2	1.2
2	1.9	19	23	81	82	62	75	53	44	12	2.3	1.2
3	1.9	18	22	74	70	58	75	54	51	11	2.3	1.4
4	2.2	18	21	68	67	55	73	58	49	9.6	2.0	1.4
5	2.3	16	21	61	61	54	71	51	46	9.1	2.0	1.2
6	2.3	15	25	55	54	50	66	49	42	9.4	1.9	1.3
7	2.3	15	25	51	51	47	65	47	39	9.1	1.8	1.4
8	2.2	14	25	48	48	44	59	45	36	8.4	1.9	1.3
9	1.9	13	28	43	45	40	61	46	33	7.5	1.8	1.3
10	1.8	12	34	39	42	38	66	47	30	6.6	1.8	1.2
11	1.9	11	36	36	40	36	70	51	29	5.7	1.8	1.2
12	1.8	9.9	37	33	37	33	72	50	26	4.7	1.8	1.3
13	1.9	9.7	36	32	36	32	74	71	25	4.3	1.8	1.2
14	2.0	9.6	38	30	36	29	74	68	19	4.0	1.8	1.4
15	1.9	9.3	40	29	35	27	68	66	18	4.7	2.2	1.3
16	2.0	9.1	43	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
17	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
18	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
19	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
20	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
21	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
22	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
23	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
24	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
25	[illegible]	11	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
26	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
27	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
28	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
29	[illegible]	[illegible]	[illegible]	[illegible]	-------	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
30	[illegible]	[illegible]	[illegible]	[illegible]	-------	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
31	[illegible]	-------	[illegible]	[illegible]	-------	[illegible]	-------	[illegible]	-------	[illegible]	[illegible]	-------
TOTAL	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
MEAN	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
MAX	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
MIN	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
CFSM	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
IN.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

CAL YR 1973 TOTAL [illegible] MEAN [illegible] MAX [illegible] MIN [illegible] CFSM [illegible] IN [illegible]
WTR YR 1974 TOTAL [illegible] MEAN [illegible] MAX [illegible] MIN [illegible] CFSM [illegible] IN [illegible]

01101300 MAPLE MEADOW BROOK AT WILMINGTON, MASS.

LOCATION.--Lat 42°32'15", long 7°09'41", Middlesex County, on right bank 10 ft (3 m) upstream from culvert on State Highway 38 and 0.9 mi (1.4 km) southeast of Wilmington.

DRAINAGE AREA.--3.99 mi² (10.33 km²).

PERIOD OF RECORD.--October 1962 o September 1974 (discontinued).

GAGE.--Water-stage recorder. Daum of gage is 75.71 ft (23.076 m) above mean sea level.

AVERAGE DISCHARGE.--11 years (193-74), 7.32 ft³/s (0.207 m³/s), 24.91 in/yr (633 mm/yr), adjusted for diversion.

EXTREMES.--Current year: Maximu discharge, 44 ft³/s (1.25 m³/s) Dec. 18 (gage height, 4.16 ft or 1.268 m); no flow Aug. 3 to Sept. 7, Sept. 13.
Period of record: Maximumdischarge, 119 ft³/s (3.37 m³/s) Mar. 19, 1968 (gage height, 5.63 ft or 1.716 m), from rating curve extended above 47 ft³/s (1.33m³/s) on basis of measurements of flow through culvert at gage heights 5.33 and 5.63 ft (1.625 and 1.716 m); no flow for many das each year.

REMARKS.--Records good. Water dverted above station for municipal supply of Wilmington since January 1964 (see table below). Recording rain gage at station ince March 1963 (no winter records).

REVISIONS (WATER YEARS).--WRD Mes., N.H., R.I., Vt., 1968: 1964-67 (monthly and yearly runoff and diversions). WRD Mass., N.H., R.I., Vt., 1973: 1970.

DISCHARGE IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.26	10	4.2	13	13	10	15	7.8	7.1	1.8	.17	0
2	.31	9.3	3.1	12	11	9.3	13	9.3	11	1.6	.06	0
3	.50	7.1	2.4	11	10	8.6	12	8.0	10	1.5	0	0
4	.80	4.9	2.4	9.8	10	8.4	11	7.8	8.2	1.5	0	0
5	.75	4.0	2.4	8.9	10	8.0	11	7.1	6.7	1.5	0	0
6	.68	3.6	4.7	8.1	8.9	7.4	10	6.2	5.3	3.0	0	0
7	.63	3.3	6.0	7.4	8.2	6.8	9.7	5.8	4.5	4.2	0	0
8	.90	3.0	4.7	7.0	8.4	6.2	8.6	6.0	3.8	3.3	0	.01
9	.53	3.8	4.5	6.8	8.2	5.8	9.7	6.0	3.6	2.4	0	.17
10	.50	[illegible]	13	6.6	8.0	5.4	15	6.0	3.1	1.9	0	.19
11	.65	2.6	16	7.2	7.8	5.0	15	18	2.8	1.5	0	.19
12	.51	2.3	18	8.0	7.5	4.7	14	18	2.4	1.2	0	.07
13	[illegible]	2.3	7.8	7.5	7.1	4.7	13	18	2.1	1.0	0	0
14	[illegible]	2.3	9.1	7.2	8.4	4.7	12	20	2.0	.80	0	.06
15	.48	1.9	17	7.2	7.8	6.0	13	14	1.9	.89	0	.05
16	[illegible]	[illegible]	16	7.1	6.2	5.6	16	11	1.9	.83	0	.04
17	[illegible]	[illegible]	21	7.1	6.2	12	12	9.3	3.5	1.6	0	.03
18	[illegible]	[illegible]	42	6.2	6.4	18	10	8.4	4.7	1.6	0	.02
19	[illegible]	[illegible]	30	6.7	6.4	12	9.3	7.1	3.8	1.5	0	.01
20	[illegible]	[illegible]	[illegible]	7.0	10	9.5	8.6	6.0	3.0	1.3	0	.01
21	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	11	7.0	[illegible]	3.0	1.1	0	[illegible]
22	[illegible]	[illegible]	[illegible]	13	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0	[illegible]
23	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	7.1	[illegible]	[illegible]	[illegible]	0	[illegible]
24	[illegible]	[illegible]	17	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0	[illegible]
25	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0	[illegible]
26	[illegible]	[illegible]	[illegible]	13	13	12	[illegible]	[illegible]	[illegible]	[illegible]	0	[illegible]
27	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	11	[illegible]	[illegible]	[illegible]	[illegible]	0	[illegible]
28	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0	[illegible]
29	[illegible]	[illegible]	[illegible]	[illegible]	----	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0	[illegible]
30	[illegible]	[illegible]	[illegible]	[illegible]	----	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0	[illegible]
31	[illegible]	----	[illegible]	[illegible]	----	13	----	[illegible]	----	[illegible]	0	----
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

01101500 IPSWICH RIVER AT SOUTH MIDDLETON, MASS.

LOCATION.--Lat 42°34'10", long 71°01'39", Essex County, on right bank in Peabody, 700 ft (200 m) downstream from Boston Street Bridge at South Middleton, 1.3 mi (2.1 km) downstream from Wills Brook, and 2 mi (3 km) south of Middleton.

DRAINAGE AREA.--43.4 mi² (112.4 km²).

PERIOD OF RECORD.--June 1938 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 44.97 ft (13.707 m) above mean sea level (Massachusetts Geodetic Survey bench mark).

AVERAGE DISCHARGE.--36 years, 70.8 ft³/s (2.005 m³/s), 22.15 in/yr (563 mm/yr), adjusted for diversions.

EXTREMES.--Current year: Maximum discharge, 292 ft³/s (8.27 m³/s) Dec. 21 (gage height, 4.36 ft or 1.329 m); minimum, 0.37 ft³/s (0.010 m³/s) Aug. 23-26, 27.
Period of record: Maximum discharge, 833 ft³/s (23.6 m³/s) Mar. 19, 1968 (gage height, 7.09 ft or 2.161 m); minimum, 0.1 ft³/s (0.003 m³/s) Sept. 24, Oct. 1, 1957.

REMARKS.--Records good except those for periods of no gage-height record, which are fair. Diversions above station for municipal supply of Reading, Lynn, and Peabody (see table below). Occasional regulation by mill above station.

REVISIONS (WATER YEARS).--WSP 1301: 1942(M). WSP 1621: 1938-58 (monthly runoff).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.6	68	47	159	145	125	136	96	87	22	2.1	1.4
2	9.1	69	44	134	117	115	130	90	95	20	1.9	1.4
3	11	66	41	121	91	110	132	96	84	15	1.5	1.7
4	13	63	39	109	102	105	130	92	77	5.7	1.4	2.1
5	13	59	39	97	103	97	127	90	70	15	1.4	2.6
6	13	55	53	89	92	92	123	88	60	13	1.2	2.4
7	12	48	55	88	86	86	113	88	50	6.8	1.2	8.4
8	11	41	51	71	82	82	105	83	42	17	1.2	9.1
9	10	38	55	68	79	77	112	77	36	15	1.4	7.7
10	9.6	31	77	55	76	74	141	83	30	14	1.5	7.3
11	9.1	26	91	48	67	71	137	107	26	12	1.5	6.4
12	8.6	24	80	44	68	67	145	101	25	10	1.4	5.9
13	8.2	24	80	42	66	63	150	144	27	6.5	1.0	4.3
14	8.6	23	91	40	68	58	150	159	11	7.7	1.4	5.8
15	6.8	22	114	33	66	56	168	133	16	6.8	1.4	6.3
16	8.4	21	108	37	62	95	150	118	15	8.4	1.5	2.9
17	8.8	20	163	38	54	89	145	121	25	8.8	1.5	.67
18	9.7	20	272	36	57	106	135	110	36	9.3	1.2	.78
19	9.7	19	237	37	56	99	125	102	29	9.3	.98	.78
20	8.8	18	290	39	113	101	115	91	14	9.3	.78	1.5
21	8.2	17	232	41	135	130	105	92	15	9.3	.78	6.3
22	7.7	20	273	53	170	225	100	76	15	9.3	.56	27
23	7.7	21	232	65	219	281	110	79	12	6.6	.58	28
24	7.7	22	198	78	250	148	115	83	6.8	6.8	.37	9.8
25	7.3	24	176	86	180	140	110	86	11	5.7	.37	7.8
26	7.3	[illegible]	[illegible]	92	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
27	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
28	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
29	[illegible]	[illegible]	[illegible]	[illegible]	-------	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
30	[illegible]	[illegible]	[illegible]	[illegible]	-------	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
31	[illegible]	-------	[illegible]	[illegible]	-------	[illegible]	-------	[illegible]	-------	[illegible]	[illegible]	-------
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

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01102000 IPSWICH RIVER NEAR IPSWICH, MASS.

LOCATION.--Lat 42°39'35", long 70°53'39", Essex County, on left bank 200 ft (60 m) downstream from Willowdale Dam, 1.5 mi (2.4 km) downstream from Howlett Brook, and 4 mi (6 km) upstream from Ipswich.

DRAINAGE AREA.--124 mi² (321 km²).

PERIOD OF RECORD.--June 1930 to current year. Prior to October 1930, published as "at Willowdale."

GAGE.--Water-stage recorder and concrete control. Datum of gage is 20.63 ft (6.288 m) above mean sea level.

AVERAGE DISCHARGE.--44 years, 201 ft³/s (5.692 m³/s), 22.01 in/yr (559 mm/yr), adjusted for diversions.

EXTREMES.--Current year: Maximum discharge, 589 ft³/s (16.7 m³/s) Mar. 24 (gage height, 4.66 ft or 1.420 m); maximum gage height, 4.93 ft (1.503 m) Dec. 24 (backwater from ice); minimum discharge, 1.6 ft³/s (0.045 m³/s) Aug. 14, 17, 21.
Period of record: Maximum discharge, 2,680 ft³/s (75.9 m³/s) Mar. 20, 21, 1968 (gage height, 8.41 ft or 2.563 m); minimum, 0.8 ft³/s (0.023 m³/s) Aug. 20, 1965.
Maximum discharge since 1886, that of Mar. 20, 21, 1968.

REMARKS.--Records excellent. Diversions above station for municipal supply of Reading, Lynn, Peabody, Danvers, Salem, and Beverly (see table below).

REVISIONS (WATER YEARS).--WSP 781: Drainage area. WSP 1621: 1930-58 (monthly runoff).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25	105	107	498	454	383	376	248	227	78	11	8.3
2	23	116	109	465	346	356	362	246	251	73	9.8	7.3
3	23	127	105	424	324	332	385	250	276	66	8.6	7.8
4	26	132	103	383	359	313	376	252	287	59	8.3	12
5	29	134	101	354	343	296	366	249	276	58	7.9	12
6	30	124	107	382	311	279	357	240	250	49	7.6	11
7	28	[illegible]	107	272	250	263	343	230	223	53	7.8	14
8	28	113	103	246	234	247	326	223	199	48	6.7	23
9	[illegible]	106	105	177	221	235	333	217	180	46	6.6	25
10	[illegible]	97	120	163	211	221	372	222	162	42	5.9	23
11	21	88	130	188	191	209	396	243	144	38	5.6	19
12	21	77	137	172	180	197	414	261	132	34	5.4	16
13	19	88	141	167	172	186	418	310	110	31	5.1	15
14	19	90	153	151	169	176	419	350	105	28	3.2	16
15	17	95	167	141	166	167	433	365	93	25	2.3	16
16	16	92	180	133	154	163	430	400	88	23	2.9	14
17	15	90	244	129	146	181	432	387	88	21	2.3	12
18	15	87	376	125	142	202	419	356	97	20	2.3	11
19	15	85	473	127	140	238	381	319	100	19	3.0	7.6
20	16	83	442	127	140	266	351	249	101	19	4.9	6.9
21	17	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	20	[illegible]	13
22	16	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	19	[illegible]	[illegible]
23	16	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	17	[illegible]	[illegible]
24	17	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	20	[illegible]	[illegible]
25	17	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	25	[illegible]	[illegible]
26	17	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
27	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
28	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
29	[illegible]	[illegible]	[illegible]	[illegible]	—	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
30	[illegible]	[illegible]	[illegible]	[illegible]	—	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
31	[illegible]	—	[illegible]	[illegible]	—	[illegible]	—	[illegible]	—	[illegible]	[illegible]	—
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

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01102500 ABERJONA RIVER AT WINCHESTER, MASS.

LOCATION.--Lat 42°26'50", long 71°08'22", Middlesex County, on left bank at Winchester, 0.5 mi (0.8 km) upstream from head of Mystic Lakes.

DRAINAGE AREA.--24.2 mi² or 62.7 km² (revised), excludes 0.6 mi² or 1.6 km² drained by Winchester North Reservoir.

PERIOD OF RECORD.--April 1939 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is at mean sea level.

AVERAGE DISCHARGE.--35 years, 27.4 ft³/s (0.776 m³/s).

EXTREMES.--Current year: Maximum discharge, 257 ft³/s (7.28 m³/s) Mar. 21 (gage height, 12.30 ft or 3.749 m); minimum, 0.77 ft³/s (0.022 m³/s) Aug. 16, 17, 21, 22, 23; minimum daily, 0.85 ft³/s (0.024 m³/s) Aug. 21, 22.

Period of record: Maximum discharge, 835 ft³/s (23.6 m³/s) Aug. 19, 1955 (gage height, 13.64 ft or 4.157 m), from rating curve extended above 330 ft³/s (9.35 m³/s); maximum gage height, 14.43 ft (4.398 m) Oct. 7, 1962 (backwater from Upper Mystic Lake); no flow for part of Oct. 10, 12, 1950, caused by pumpage from gage pool; minimum daily discharge, 0.25 ft³/s (0.007 m³/s) Oct. 10, 1950.

Maximum discharge since 1886, that of Aug. 19, 1955.

REMARKS.--Records good. Flow affected by diversions for industrial use and for municipal supply of Woburn and Winchester, and by wastage and leakage from Winchester North Reservoir. Some regulation by Winchester at dam 1,800 ft (550 m) upstream.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.6	39	11	62	47	39	59	48	55	10	3.4	.0
2	4.0	25	8.3	57	40	36	54	33	64	6.3	2.7	7
3	7.5	16	7.4	48	39	34	54	24	32	7.8	4.3	.0
4	5.8	12	7.4	44	39	34	53	27	23	6.4	2.6	1
5	6.8	9.6	16	42	34	34	49	20	21	23	3.0	.4
6	5.5	8.6	37	38	28	30	48	28	18	31	2.0	.1
7	4.1	7.2	18	36	33	27	41	35	15	14	1.8	3
8	3.9	6.4	13	32	32	25	34	43	13	12	1.9	1
9	4.1	6.2	44	28	30	20	69	26	12	6.1	1.5	2
10	3.8	5.5	49	29	27	24	74	46	19	5.4	1.4	.3
11	4.0	5.9	32	31	27	18	52	67	12	4.7	1.3	.3
12	4.1	5.1	24	33	25	18	46	35	11	5.6	1.3	.0
13	3.4	5.8	16	26	27	17	47	137	9.7	4.5	1.4	.9
14	3.2	5.0	51	24	30	17	49	75	6.1	4.2	1.3	1
15	3.0	4.5	44	24	27	17	70	54	4.7	4.4	1.0	.4
16	3.0	4.5	30	26	24	18	48	43	18	14	.86	.4
17	2.9	4.5	156	23	24	73	55	32	27	12	1.1	.9
18	3.7	4.4	160	20	22	62	46	25	16	8.8	4.2	.1
19	2.8	4.6	111	33	26	61	42	21	12	12	1.2	.7
20	4.3	4.7	88	30	129	59	39	20	15	9.7	.96	.3
21	3.5	4.0	100	35	92	133	30	19	17	5.3	.85	2
22	3.3	11	113	66	89	197	29	20	16	6.6	.85	5
23	3.2	7.3	82	66	155	80	66	23	11	6.6	1.1	1
24	2.7	5.9	61	61	70	69	57	29	9.5	5.7	1.0	1
25	2.6	11	51	55	61	67	62	35	11	5.0	1.1	.5
26	2.4	12	51	65	52	63	68	33	12	5.9	1.3	.8
27	2.3	8.9	119	72	45	62	53	28	9.6	5.4	1.3	.6
28	1.9	23	130	[illegible]	40	37	[illegible]	27	8.6	5.3	11	.0
29	16	25	[illegible]	[illegible]	-------	[illegible]	[illegible]	27	8.6	5.4	17	[illegible]
30	[illegible]	16	[illegible]	[illegible]	-------	[illegible]	[illegible]	[illegible]	7.8	[illegible]	[illegible]	[illegible]
31	[illegible]	-------	[illegible]	[illegible]	-------	[illegible]	-------	[illegible]	-------	[illegible]	[illegible]	----
TOTAL	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
MEAN	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
MAX	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
MIN	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

CAL YR 1973 TOTAL [illegible] MEAN [illegible] MAX [illegible] MIN [illegible]
WTR YR 1974 TOTAL [illegible] MEAN [illegible] MAX [illegible] MIN [illegible]

01103500 CHARLES RIVER AT CHARLES RIVER VILLAGE, MASS.

LOCATION.--Lat 42°15'22", long 71°15'38", Norfolk County, on right bank 0.3 mi (0.5 km) downstream from highway bridge at Charles River Village, 0.8 mi (1.3 km) downstream from Noanet Brook, and 1.3 mi (2.1 km) northeast of Dover.

DRAINAGE AREA.--184 mi² (477 km²).

PERIOD OF RECORD.--October 1937 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 89.76 ft (27.359 m) above mean sea level.

AVERAGE DISCHARGE.--37 years, 296 ft³/s (8.383 m³/s), unadjusted.

EXTREMES.--Current year: Maximum discharge, 1,150 ft³/s (32.6 m³/s) Dec. 21 (gage height, 4.27 ft or 1.301 m); minimum daily, 22 ft³/s (0.62 m³/s) Aug. 26, 27.

Period of record: Maximum discharge, 3,220 ft³/s (91.2 m³/s) Aug. 23, 1955 (gage height, 9.24 ft or 2.816 m) and Mar. 22, 1968 (gage height, 8.72 ft or 2.658 m); minimum, 0.5 ft³/s (0.014 m³/s) Oct. 24, 1952 (caused by unusual regulation); minimum daily, 0.9 ft³/s (0.025 m³/s) Oct. 24, 1952.

Maximum discharge since flood of 1886, that of August 1955 and March 1968. Flood of March 1936 reached a discharge of 3,170 ft³/s (89.8 m³/s), by computation of flow over dam at site 0.2 mi (0.3 km) above station.

REMARKS.--Records good. Flow affected by diversions to and from basin for municipal supplies.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	93	299	230	799	809	725	703	402	300	119	37	88
2	83	319	205	759	778	667	680	375	317	118	36	84
3	82	315	178	713	725	618	667	378	319	121	48	84
4	86	284	157	676	664	579	677	383	311	121	44	89
5	88	245	154	628	590	542	661	372	295	135	43	86
6	87	205	222	580	550	504	639	362	247	180	39	90
7	88	178	248	535	521	471	616	348	218	200	39	146
8	81	166	266	484	470	432	588	328	198	208	38	161
9	74	146	294	365	435	400	618	313	179	197	36	179
10	69	132	344	251	400	375	654	341	161	170	35	177
11	67	122	365	322	387	342	679	375	147	140	33	150
12	67	115	385	369	352	324	713	408	135	117	30	120
13	66	108	377	395	351	297	729	546	124	99	28	98
14	66	105	408	380	357	276	729	577	114	85	27	142
15	58	103	438	356	347	263	784	604	105	77	25	107
16	53	102	449	340	335	252	765	590	114	69	25	96
17	49	102	667	325	322	403	774	563	176	66	25	86
18	50	107	842	305	305	463	771	521	201	61	33	76
19	50	96	886	315	295	535	759	472	215	65	29	68
20	53	96	941	336	494	565	727	410	203	61	26	63
21	56	91	1,030	351	594	673	688	346	183	54	25	88
22	55	102	1,110	424	717	864	650	294	174	50	25	169
23	57	112	1,090	469	867	904	628	261	167	47	28	192
24	54	123	1,070	563	882	1,010	626	258	151	44	27	198
25	53	141	1,010	595	898	1,060	579	268	142	43	23	178
26	56	166	958	661	860	1,040	553	278	141	43	22	169
27	65	167	904	729	834	979	523	281	138	42	22	122
28	63	212	817	756	780	900	491	278	135	42	51	103
29	58	229	882	788	------	820	453	278	136	41	83	227
30	155	230	860	819	------	756	407	277	127	41	60	305
31	248	------	875	838	------	763	------	276	------	39	77	------
TOTAL	2,296	4,961	18,782	16,188	15,939	18,743	19,531	11,763	5,565	2,895	1,119	3,909
MEAN	74.1	165	606	522	569	605	651	379	186	93.4	36.1	130
MAX	248	319	1,110	838	898	1,060	784	604	319	208	83	305
MIN	49	91	154	251	295	252	407	258	105	39	22	63

CAL YR 1973 TOTAL 123,366 MEAN 338 MAX 1,170 MIN 60
WTR YR 1974 TOTAL 121,711 MEAN 333 MAX 1,110 MIN 22

CHARLES RIVER BASIN

01104000 MOTHER BROOK AT DEDHAM, MASS.

LOCATION.--Lat 42°15'18", long 71°09'53", Norfolk County, on right bank 100 ft (30 m) upstream from Washington Street Bridge at Dedham and 0.4 mi (0.6 km) downstream from point of diversion from Charles River.

PERIOD OF RECORD.--October 1931 to current year.

GAGE.--Water-stage recorder. Concrete control since June 10, 1960. Datum of gage is 0.03 ft (0.009 m) below mean sea level. Dec. 9, 1931, to June 9, 1960, nonrecording gage at site 200 ft (60 m) upstream at same datum.

AVERAGE DISCHARGE.--43 years, 79.5 ft³/s (2.251 m³/s).

EXTREMES.--Current year: Maximum discharge, 401 ft³/s (11.4 m³/s) Dec. 22, Mar. 27 (gage height, 83.83 ft or 25.551 m); minimum, 2.3 ft³/s (0.065 m³/s) Aug. 26-28.
Period of record: Maximum discharge, 1,040 ft³/s (29.5 m³/s) Mar. 21, 1968 (gage height, 87.18 ft or 26.572 m); maximum gage height, 92.90 ft (28.316 m) Aug. 24, 1955, from graph based on gage readings; no flow at times.

REMARKS.--Records good. Mother Brook is a diversion from Charles River to Neponset River through Dedham and Hyde Park.

REVISIONS (WATER YEARS).--WSP 1301: 1932(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	61	55	281	275	241	252	134	61	19	3.8	9.4
2	10	68	46	265	260	234	232	118	66	18	3.4	10
3	10	69	34	243	240	208	221	110	65	17	6.9	12
4	9.9	63	23	229	220	189	227	119	62	17	5.1	16
5	10	60	25	210	205	176	224	108	56	30	4.3	11
6	11	51	51	191	185	159	217	103	48	39	5.1	9.8
7	10	38	54	173	170	146	201	98	39	36	4.3	35
8	9.1	27	61	155	154	136	191	93	31	45	4.6	28
9	7.6	24	74	120	140	120	213	82	27	39	4.3	29
10	7.3	21	103	77	125	121	241	96	22	38	4.1	29
11	6.8	17	105	77	117	106	234	110	25	29	3.8	24
12	6.2	15	109	93	106	96	234	109	24	26	4.1	11
13	5.4	13	106	106	103	93	243	167	20	17	3.8	9.8
14	6.2	13	120	108	106	81	245	175	17	14	3.8	34
15	6.5	12	133	104	100	72	285	178	15	13	3.8	19
16	5.4	13	131	99	95	64	282	182	16	11	3.4	14
17	4.4	13	227	94	93	121	269	177	32	9.3	3.8	11
18	4.1	12	334	86	87	139	265	163	30	7.9	4.1	9.8
19	4.1	11	326	92	83	152	262	145	34	7.9	3.6	7.9
20	4.0	11	330	98	175	166	253	125	34	9.4	3.1	7.2
21	5.3	9.5	367	105	199	209	238	103	37	6.3	2.8	15
22	5.3	12	395	120	217	325	221	83	40	6.3	2.6	45
23	4.9	12	386	150	286	316	213	74	37	4.1	2.8	37
24	4.7	16	380	170	300	334	226	69	29	3.8	3.0	37
25	4.5	21	363	190	305	358	201	69	26	8.0	2.8	33
26	4.3	26	350	210	305	359	185	70	26	5.1	2.4	27
27	4.4	30	359	250	289	363	169	67	24	4.9	2.3	17
28	3.8	45	340	260	263	337	154	69	22	4.6	4.8	12
29	5.6	54	315	270	------	298	141	66	21	4.3	24	61
30	42	52	310	280	------	270	127	62	20	4.1	11	78
31	50	------	290	280	------	273	------	61	------	4.1	8.3	------
TOTAL	286.8	887.5	6,292	5,180	5,203	6,262	6,666	3,363	1,006	498.1	149.8	698.9
MEAN	9.25	29.6	203	167	186	202	222	108	33.5	16.1	4.83	23.3
MAX	50	69	395	281	305	363	285	182	66	45	24	78
MIN	3.8	9.5	23	77	83	64	127	61	15	3.8	2.3	7.2

CAL YR 1973 TOTAL 34,018.6 MEAN 93.2 MAX 395 MIN 3.8
WTR YR 1974 TOTAL 36,495.1 MEAN 100 MAX 395 MIN 2.3

01104200 CHARLES RIVER AT WELLESLEY, MASS.

LOCATION.--Lat 42°18'59", long 71°13'42", Norfolk County, on left bank at east limits of Wellesley, 30 ft (9 m) upstream from a horseshoe-shaped dam and 50 ft (15 m) upstream from bridge on State Highway 9.

DRAINAGE AREA.--211 mi² (546 km²).

PERIOD OF RECORD.--August 1959 to current year.

GAGE.--Water-stage recorder and masonry dam. Datum of gage is 67.92 ft (20.702 m) above mean sea level.

AVERAGE DISCHARGE.--15 years, 264 ft³/s (7.476 m³/s), unadjusted.

EXTREMES.--Current year: Maximum discharge, 1,280 ft³/s (36.2 m³/s) Jan. 2 (gage height, 5.06 ft or 1.542 m); minimum, 22 ft³/s (0.62 m³/s) Aug. 23, 26-28; minimum daily, 22 ft³/s (0.62 m³/s) Aug. 23, 27.

Period of record: Maximum discharge, 2,410 ft³/s (68.3 m³/s) Mar. 21, 1968 (gage height, 6.20 ft or 1.890 m); no flow Sept. 15, Oct. 6, 1959 (caused by closing of gates at dam at gage); minimum daily discharge, 1.0 ft³/s (0.028 m³/s) Aug. 24, 31, Sept. 8, 1965.

REMARKS.--Records good except those for periods of no gage-height record, which are fair. Flow affected by diversion to Mother Brook (see sta. 01104000), and by diversions to and from basin for municipal supplies. Occasional regulation at dam 0.2 mi (0.3 m) above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	94	245	197	681	620	623	580	352	283	106	31	73
2	84	283	190	633	600	569	560	333	310	109	35	75
3	83	270	171	587	560	522	560	324	301	106	65	83
4	80	257	154	553	520	485	570	314	296	109	51	95
5	80	233	152	520	480	455	550	314	283	122	53	96
6	80	195	200	482	440	425	520	314	253	169	39	93
7	83	169	204	448	410	395	520	305	225	149	39	173
8	83	154	215	405	385	368	500	283	202	202	31	154
9	76	139	265	324	367	352	500	279	180	143	33	155
10	72	125	317	249	333	310	520	242	162	155	33	162
11	69	121	310	250	319	280	560	319	141	128	31	154
12	69	108	319	280	301	265	600	333	122	109	31	152
13	68	100	320	300	296	250	610	423	115	95	30	95
14	66	95	360	300	296	235	610	447	106	80	23	166
15	63	95	386	290	292	225	630	462	100	70	23	122
16	58	90	384	280	275	220	610	484	103	70	23	109
17	49	88	571	265	266	330	630	446	154	65	31	92
18	47	89	736	250	257	380	630	431	146	63	37	80
19	47	91	719	270	260	430	619	400	180	68	35	75
20	47	83	732	280	400	500	606	361	187	80	30	70
21	47	84	817	290	550	600	573	319	176	63	26	109
22	49	91	865	320	600	720	542	275	170	95	23	195
23	53	98	866	360	660	780	524	265	166	53	22	169
24	53	103	835	400	670	820	542	261	165	49	23	180
25	49	124	806	450	677	820	495	241	129	45	23	173
26	49	137	787	500	686	810	462	241	128	45	23	166
27	49	152	803	550	671	770	445	241	130	43	22	135
28	51	187	750	590	667	710	419	241	132	41	51	115
29	60	199	735	620	------	660	387	245	122	41	135	257
30	187	203	704	640	------	630	362	257	119	38	80	275
31	217	------	695	660	------	610	------	262	------	35	73	------
TOTAL	2,262	4,411	15,566	13,007	12,795	15,569	16,236	10,026	5,286	2,767	1,205	4,011
MEAN	73.0	147	502	420	457	502	541	323	176	89.3	38.9	134
MAX	217	283	866	681	686	820	630	484	310	202	135	275
MIN	47	83	152	249	257	220	362	241	100	35	22	70

CAL YR 1973 TOTAL 107,956 MEAN 296 MAX 900 MIN 47
WTR YR 1974 TOTAL 103,092 MEAN 282 MAX 866 MIN 22

NOTE.--No gage-height record Jan. 12 to Feb. 7, Mar. 10 to Apr. 18.

01104500 CHARLES RIVER AT WALTHAM, MASS.

LOCATION.--Lat 42°22'20", long 71°14'03", Middlesex County, on right bank 800 ft (250 m) downstream from Moody Street Bridge in Waltham and 0.3 mi (0.5 km) upstream from Beaver Brook.

DRAINAGE AREA.--227 mi² (588 km²) excludes 23.6 mi² (61.1 km²) drained by Stony Brook, from which flow is diverted for municipal supply of Cambridge.

PERIOD OF RECORD.--October 1903 to October 1909 (figures of average weekly discharge, equivalent to records of unadjusted discharge at present site), August 1931 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 20.02 ft (6.102 m) above mean sea level. Prior to July 10, 1904, at dam 700 ft (200 m) upstream and July 10, 1904, to Oct. 2, 1909, at dam 0.7 mile (1.1 km) downstream at different datums; discharge computed from flow over dam and through wheels and gates of Boston Manufacturing Co. and Waltham Bleachery, respectively.

AVERAGE DISCHARGE.--43 years (1931-74), 290 ft³/s (8.213 m³/s), unadjusted.

EXTREMES.--Current year: Maximum discharge, 1,090 ft³/s (30.9 m³/s) Dec. 21 (gage height, 3.28 ft or 1.000 m); minimum, 27 ft³/s (0.76 m³/s) Aug. 27, 28; minimum daily, 30 ft³/s (0.85 m³/s) Aug. 27.
Period of record: Maximum discharge, 2,670 ft³/s (75.6 m³/s) Mar. 22, 1968 (gage height, 5.15 ft or 1.570 m); maximum gage height, 5.39 ft (1.643 m) Mar. 22, 1968 (backwater from debris); minimum discharge, 0.1 ft³/s (0.003 m³/s) Oct. 1, 12, 1943; minimum daily, 0.2 ft³/s (0.006 m³/s) Oct. 4, 1943.
Maximum discharge since 1886, that of Mar. 22, 1968.

REMARKS.--Records good. Flow affected by diversion to Mother Brook (see sta. 01104000), diversions to and from basin for municipal supplies, and at times by wastage from Stony Brook Reservoir. Prior to 1960, some regulation by mills upstream. Low flow completely regulated by Boston Edison Co. powerplant above station prior to 1954.

REVISIONS (WATER YEARS).--WSP 781: 1933(M). WSP 851: Drainage area. WSP 971: 1942.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	108	28	217	701	641	658	643	421	342	126	52	87
2	97	28	210	664	638	606	606	369	365	130	49	87
3	95	28	195	629	605	565	589	360	346	137	68	105
4	93	27	175	597	550	530	597	362	330	132	77	127
5	95	25	181	554	510	494	593	347	310	148	72	105
6	91	22	250	515	475	460	565	333	280	208	62	96
7	91	19	225	477	450	434	542	324	250	190	53	211
8	90	17	231	431	430	401	516	306	228	221	49	199
9	86	16	301	346	405	382	583	296	205	205	46	178
10	81	14	357	290	375	348	625	346	183	181	43	177
11	79	13	335	280	358	329	615	358	164	150	40	177
12	78	12	333	299	333	314	615	354	145	130	38	169
13	78	12	338	315	328	286	623	525	133	114	36	138
14	77	11	413	320	330	273	637	516	126	101	34	191
15	71	11	426	316	314	262	730	509	116	91	32	156
16	68	10	416	310	300	263	702	491	139	97	31	124
17	66	10	753	295	299	408	680	483	202	84	32	110
18	63	16	885	278	296	383	669	456	190	78	46	99
19	62	17	803	296	283	401	663	419	203	79	43	89
20	65	16	799	296	507	424	644	378	220	108	39	86
21	65	11	919	313	560	616	615	340	213	83	37	125
22	66	11	959	386	619	847	589	301	215	72	34	251
23	69	11	925	417	721	836	584	276	204	66	34	199
24	78	11	856	453	735	808	610	275	182	61	36	193
25	67	11	885	476	740	803	574	281	167	60	34	184
26	67	16	793	488	728	822	540	282	166	58	32	169
27	65	17	877	599	709	785	517	279	163	56	30	166
28	65	20	833	652	682	742	479	276	157	56	130	132
29	78	21	779	684	-------	697	436	281	149	56	223	377
30	259	26	750	680	-------	662	407	294	136	57	183	316
31	273	-------	712	675	-------	699	-------	240	-------	56	91	-------
TOTAL	2,774	5,0	17,051	14,040	13,897	16,536	17,789	11,126	6,232	3,309	1,753	4,605
MEAN	89.5	16	550	453	496	533	593	359	208	107	56.5	153
MAX	273	28	959	701	740	847	730	525	365	221	223	377
MIN	62	10	175	278	283	262	407	240	116	56	30	86

CAL YR 1973 TOTAL [illegible] MEAN 329 MAX 1,070 MIN 62
WTR YR 1974 TOTAL 116,420 MEAN 319 MAX 959 MIN 30

01105000 NEPONSET RIVER AT NORWOOD, MASS.

LOCATION.--Lat 42°10'39", long 71°12'05", Norfolk County, on left bank 200 ft (60 m) upstream from Pleasant Street Bridge, 200 ft (60 m) downstream from Penn Central Railroad bridge, 0.45 mi (0.72 km) downstream from Hawes Brook, and 0.5 mi (0.8 km) south of Norwood.

DRAINAGE AREA.--35.2 mi² (91.2 km²).

PERIOD OF RECORD.--October 1939 to current year. October 1939 monthly discharge only, published in WSP 1301.

GAGE.--Water-stage recorder. Datum of gage is 44.04 ft (13.423 m) above mean sea level, unadjusted.

AVERAGE DISCHARGE.--35 years, 52.6 ft³/s (1.490 m³/s).

EXTREMES.--Current year: Maximum discharge, 410 ft³/s (11.6 m³/s) Mar. 21 (gage height, 8.19 ft or 2.496 m, at upstream side of railroad bridge); minimum daily, 6.2 ft³/s (0.18 m³/s) Aug. 17.

Period of record: Maximum discharge, 1,490 ft³/s (42.2 m³/s) Aug. 19, 1955 (gage height, 14.65 ft or 4.465 m, from floodmarks); minimum daily, 1.4 ft³/s (0.040 m³/s) Oct. 20, 1963.

Maximum discharge since 1886, that of Aug. 19, 1955. Flood of July 24, 1938, reached a stage of 11.05 ft (3.368 m), from floodmarks.

REMARKS.--Records good except those for period of no gage-height record, which are poor. Flow regulated by mills and reservoirs above station. Several diversions above station for municipal and industrial use.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26	73	28	122	96	101	123	88	56	15	6.8	23
2	23	57	21	113	83	87	113	74	64	16	74	27
3	26	45	20	98	81	81	104	68	53	21	13	39
4	16	37	17	91	79	83	120	75	42	24	10	45
5	15	27	23	84	74	80	113	72	36	31	11	21
6	11	21	46	76	57	74	105	78	32	51	10	13
7	14	20	40	70	63	68	98	90	27	41	9.5	73
8	15	19	29	67	61	64	88	76	23	34	9.0	69
9	13	18	49	61	62	60	135	66	21	27	8.4	51
10	13	17	86	63	63	61	194	80	20	20	8.0	42
11	14	17	70	68	57	57	179	100	19	15	7.6	26
12	13	16	54	66	53	49	143	85	15	12	7.3	12
13	13	14	44	65	53	49	128	115	16	11	7.0	16
14	14	13	80	56	59	39	126	111	13	12	6.8	33
15	13	12	92	52	55	42	213	87	11	11	6.6	27
16	10	13	80	53	48	43	187	70	18	8.2	6.4	21
17	9.9	12	222	52	52	123	149	63	44	7.3	6.2	16
18	9.3	11	291	47	50	114	126	57	42	7.2	12	18
19	9.8	15	199	65	51	91	117	50	29	6.8	9.7	18
20	14	15	142	76	189	80	112	44	26	10	6.3	15
21	18	15	161	72	182	187	103	39	24	11	7.1	36
22	13	26	172	114	164	317	91	39	25	11	7.1	77
23	14	28	145	116	184	235	95	45	22	8.4	7.9	53
24	12	26	125	120	173	186	118	48	21	7.6	8.4	31
25	11	40	107	111	142	152	106	50	20	7.3	8.2	26
26	11	35	107	100	120	134	99	55	22	7.0	7.8	23
27	12	29	163	121	109	120	88	60	22	7.0	7.5	20
28	13	39	160	148	111	107	81	49	20	7.2	17	20
29	20	44	139	154	------	99	76	48	22	7.5	35	118
30	91	33	136	139	------	96	68	50	18	7.0	27	95
31	81	------	123	121	------	128	------	45	------	7.8	43	------
TOTAL	588.0	787	3,169	2,761	2,571	3,207	3,598	2,077	823	469.3	406.0	1,102
MEAN	19.0	26.2	102	89.1	91.8	103	120	67.0	27.4	15.1	13.1	36.7
MAX	91	73	291	154	189	317	213	115	64	51	74	118
MIN	9.3	11	17	47	48	39	68	39	11	6.8	6.2	12

CAL YR 1973 TOTAL 21,558.0 MEAN 59.1 MAX 268 MIN 9.3
WTR YR 1974 TOTAL 21,558.3 MEAN 59.1 MAX 317 MIN 6.2

NOTE.--No gage-height record July 23 to Sept. 11.

01105500 EAST BRANCH NEPONSET RIVER AT CANTON, MASS.

LOCATION.--Lat 42°09'16", long 71°08'47", Norfolk County, on right bank 100 ft (30 m) downstream from Washington Street Bridge at Canton, 200 ft (60 m) downstream from Forge Pond Dam, and 900 ft (250 m) downstream from Massapoag Brook.

DRAINAGE AREA.--27.2 mi² (70.4 km²).

PERIOD OF RECORD.--October 1952 to current year.

GAGE.--Water-stage recorder. Datum of gage is 80.18 ft (24.439 m) above mean sea level (Massachusetts Department of Public Works bench mark).

AVERAGE DISCHARGE.--22 years, 51.3 ft³/s (1.453 m³/s).

EXTREMES.--Current year: Maximum discharge, 418 ft³/s (11.8 m³/s) Dec. 17 (gage height, 3.87 ft or 1.180 m); minimum daily, 8.0 ft³/s (0.23 m³/s) Aug. 13, 14.

Period of record: Maximum discharge, 1,790 ft³/s (50.7 m³/s) Aug. 19, 1955 (gage height, 8.18 ft or 2.493 m), from rating curve extended above 690 ft³/s (19.5 m³/s); minimum daily, 0.6 ft³/s (0.017 m³/s) July 7, Sept. 1, 1957.

REMARKS.--Records good. Flow regulated by Forge, Bolivar, Massapoag, and Reservoir Ponds, and other ponds above station. Diversion above station for municipal supply of Canton and Stoughton.

REVISIONS.--WSP 1901: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	[illegible]	[illegible]	[illegible]	115	[illegible]	75	111	60	37	23	[illegible]	22
2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	72	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	19
3	[illegible]	[illegible]	[illegible]	100	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	20	12	20
4	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	61	33	[illegible]	12	[illegible]
5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	61	108	57	[illegible]	21	[illegible]	27
6	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	19
7	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	11	62
8	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	57	[illegible]	42	[illegible]	[illegible]
9	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	20	32	9.1	31
10	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	9.1	22
11	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	17	[illegible]	[illegible]	[illegible]
12	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
13	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	16	15	8.0	17
14	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	15	15	[illegible]	22
15	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	15	13	[illegible]	20
16	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	61	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	17
17	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	111	[illegible]	[illegible]	[illegible]	12	[illegible]	15
18	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	11	11	[illegible]
19	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	33	[illegible]	11	11	[illegible]
20	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	61	[illegible]	[illegible]	[illegible]	11	[illegible]	13
21	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	10	[illegible]	17
22	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	10	[illegible]	[illegible]
23	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
24	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	10	[illegible]
25	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
26	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
27	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
28	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
29	[illegible]	[illegible]	[illegible]	[illegible]	------	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
30	[illegible]	[illegible]	[illegible]	[illegible]	------	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
31	[illegible]	------	[illegible]	[illegible]	------	[illegible]	------	[illegible]	------	[illegible]	[illegible]	------
TOTAL	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
MEAN	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
MAX	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
MIN	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

CAL YR 1973 TOTAL [illegible] MEAN [illegible] MAX [illegible] MIN [illegible]

WTR YR 1974 TOTAL [illegible] MEAN [illegible] MAX [illegible] MIN [illegible]

01105557 FURNACE BROOK AT QUINCY, MASS.

LOCATION.--Lat 42°15'28", long 71°00'33", Norfolk County, on left bank 20 ft (6 m) upstream from Hancock Street Bridge at Quincy, and 1.1 mi (1.8 km) upstream from mouth.

DRAINAGE AREA.--3.83 mi² (9.92 km²), based on storm-sewer system.

PERIOD OF RECORD.--October 1972 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 5 ft (2 m) from topographic map.

EXTREMES.--Current year: Maximum discharge, 227 ft³/s (6.43 m³/s) Aug. 29 (gage height, 4.37 ft or 1.332 m); minimum, 0.14 ft³/s (0.004 m³/s) Aug. 13, 26; minimum daily, 0.19 ft³/s (0.005 m³/s) Aug. 20-22.
Period of record: Maximum discharge, 227 ft³/s (6.43 m³/s) Aug. 29, 1974 (gage height, 4.37 ft or 1.332 m); minimum, 0.11 ft³/s (0.003 m³/s) June 21, 1973; minimum daily, 0.19 ft³/s (0.005 m³/s) Aug. 20-22, 1974.

REMARKS.--Records good except for those for period Oct. 1 to Dec. 4, which are fair. Occasional regulation at low flow.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.77	2.1	2.7	10	8.7	6.9	9.5	8.7	7.4	3.0	.42	.42
2	.77	2.0	2.1	8.2	8.2	6.3	8.4	4.2	4.0	1.5	.42	.75
3	3.0	2.0	1.7	7.2	7.9	6.1	7.7	5.1	3.2	2.1	3.5	4.4
4	1.1	2.0	1.6	7.0	7.4	6.5	14	4.6	2.7	.75	.29	2.6
5	1.5	1.8	4.9	6.5	6.7	7.2	9.8	3.7	2.7	4.0	2.0	.56
6	1.0	1.6	4.4	5.9	5.9	5.9	8.2	3.5	2.1	1.3	.33	.74
7	.77	1.5	2.4	5.5	5.7	5.5	7.4	3.5	1.8	1.2	.25	14
8	.61	1.1	2.1	4.9	5.7	4.9	6.7	3.2	1.8	.97	.29	1.8
9	.61	1.1	11	4.7	5.5	4.7	22	2.8	1.7	.66	.29	1.1
10	.61	1.1	5.7	4.7	5.1	5.1	17	6.5	1.6	.61	.29	.97
11	.61	1.0	6.7	5.1	4.9	4.7	13	3.8	1.3	.61	.29	.97
12	.57	.89	6.1	4.7	4.7	4.7	11	4.9	1.2	.61	.33	.97
13	.68	.89	6.1	4.4	5.9	4.6	11	8.7	1.1	.61	.29	5.7
14	.60	.77	14	4.0	5.7	4.6	9.8	4.0	.97	.66	.29	4.7
15	.56	.77	8.4	4.0	4.9	4.6	31	3.5	.86	.61	.29	1.6
16	.56	.77	9.4	4.2	4.4	7.0	19	3.2	1.5	.61	.25	1.3
17	.56	.66	67	4.2	4.4	14	12	3.0	8.4	.61	1.1	1.2
18	.64	.66	37	3.5	4.4	7.2	10	2.7	2.0	.56	2.0	1.5
19	.58	.66	20	7.6	5.7	5.7	10	2.7	1.3	2.0	.22	1.1
20	.66	.66	14	5.5	31	4.7	8.4	2.6	1.6	.66	.19	1.1
21	.62	.66	20	10	15	41	7.7	2.6	2.1	.67	.19	5.7
22	.60	4.4	19	13	18	27	7.4	2.2	4.4	.67	.19	5.3
23	.56	1.7	14	11	19	16	8.5	3.1	1.7	.67	.33	1.3
24	.56	2.0	11	11	14	13	7.9	3.2	1.5	.62	.25	1.2
25	.53	5.9	9.2	9.5	11	10	6.7	2.7	1.2	.62	.22	1.2
26	.52	2.8	13	8.4	8.9	8.9	6.1	2.7	2.1	.62	.22	1.3
27	.50	2.9	17	14	7.6	8.6	5.3	2.4	1.8	.62	.22	1.3
28	.48	6.5	12	13	7.1	7.9	5.3	2.4	1.2	.62	6.5	2.8
29	2.7	4.2	9.7	13	------	7.8	4.9	4.8	1.1	.62	19	23
30	6.9	3.2	12	9.2	------	8.2	4.8	2.8	.97	.62	2.6	6.5
31	3.8	------	9.2	8.4	------	17	------	2.7	------	.62	.56	------
TOTAL	34.91	58.69	383.4	232.3	243.4	289.1	307.2	110.7	67.80	28.83	43.61	99.28
MEAN	1.13	1.96	12.4	7.49	8.69	9.29	10.2	3.63	2.23	.93	1.41	3.30
MAX	6.9	6.5	67	14	31	41	31	8.7	8.4	4.0	19	23
MIN	.48	.66	1.6	3.5	4.4	4.6	4.8	2.2	.86	.62	.19	.42
CFSM	.29	.51	3.24	1.96	2.27	2.43	2.66	1.09	.58	.24	.37	.86
IN.	.33	.56	3.72	2.26	2.36	2.77	2.98	1.15	.65	.28	.42	.96

CAL YR 1973 TOTAL 1,[illegible] MEAN 5.20 MAX 67 MIN .38 CFSM 1.36 IN 18.44
WTR YR 1974 TOTAL 1,[illegible] MEAN 5.21 MAX 67 MIN .19 CFSM 1.36 IN 18.48

PEAK DISCHARGE (BASE, 90 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

01105585 TOWN BROOK AT QUINCY, MASS.
(Formerly published as Town River at Quincy, Mass.)

LOCATION.--Lat 42°14'52", long 70°59'52", Norfolk County, on left bank 200 ft (61 m) downstream from Miller Stile Road at Quincy and 0.8 mi (1.3 km) upstream from Town River Bay.

DRAINAGE AREA.--4.25 mi² (11.01 km²).

PERIOD OF RECORD.--September 1972 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 5 ft (1.5 m) from topographic map.

EXTREMES.--Current year: Maximum discharge, 372 ft³/s (10.5 m³/s) Aug. 29 (gage height, 6.77 ft or 2.063 m); minimum, 0.31 ft³/s (0.009 m³/s) July 20.

Period of record: Maximum discharge, 378 ft³/s (10.7 m³/s) Aug. 11, 1973 (gage height, 6.83 ft or 2.082 m), from rating curve extended above 210 ft³/s (5.95 m³/s); minimum, 0.31 ft³/s (0.009 m³/s) July 20, 1974.

REMARKS.--Records good. Diurnal fluctuation caused by plant above station. Occasional regulation by Old Quincy Reservoir 2.2 mi (3.5 km) upstream.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.2	11	3.6	19	14	14	12	14	14	7.7	1.0	1.1
2	4.5	6.0	3.3	17	14	13	13	6.6	5.3	4.0	.94	2.5
3	9.1	5.5	3.4	13	14	10	11	9.1	5.1	5.3	4.2	9.8
4	4.5	5.2	3.4	11	14	6.5	20	7.2	5.1	2.9	.84	7.7
5	5.2	5.5	11	9.8	14	5.9	13	6.3	5.1	10	3.4	3.4
6	4.3	5.5	7.8	9.4	14	5.5	12	6.1	4.9	1.8	.89	3.4
7	3.4	5.5	5.5	9.4	16	5.2	10	6.9	4.7	1.5	.89	29
8	2.0	5.5	6.2	8.8	13	6.6	10	5.8	4.7	1.6	.89	4.4
9	1.9	5.5	28	8.8	8.8	8.8	35	5.6	4.9	1.3	.84	3.5
10	1.9	5.2	11	9.4	8.2	7.5	19	15	4.7	1.2	.79	3.1
11	1.9	5.2	11	11	8.5	4.6	14	6.3	4.7	1.2	.89	3.1
12	2.0	4.3	7.8	9.1	8.5	4.5	12	10	4.7	1.2	.89	3.2
13	1.9	3.1	7.2	8.5	12	4.5	13	16	4.4	1.2	.94	12
14	1.9	2.9	27	8.2	9.4	4.4	13	5.8	4.4	1.3	.94	13
15	1.9	3.1	10	9.1	8.2	4.4	45	5.6	4.2	1.2	.89	3.5
16	1.9	3.4	15	9.4	7.8	8.8	17	5.3	5.6	1.4	.89	3.4
17	1.9	3.3	114	8.5	8.2	27	17	6.6	24	1.2	3.5	2.5
18	2.1	3.1	27	8.5	8.2	12	16	4.9	4.0	1.3	2.3	1.5
19	2.0	3.1	14	17	12	12	18	4.9	3.4	3.2	1.3	1.2
20	2.0	2.9	15	9.4	63	11	16	4.9	4.9	1.4	.98	2.6
21	1.9	2.9	44	17	17	77	16	4.9	5.3	1.0	.98	10
22	1.9	8.8	22	17	28	27	16	5.1	14	.98	.98	9.8
23	2.1	2.9	22	12	19	22	20	11	4.7	1.0	2.8	3.1
24	2.0	3.4	19	10	15	19	13	6.3	4.0	.94	1.2	2.9
25	2.0	12	15	9.4	16	17	8.5	4.9	4.2	.94	.98	2.9
26	2.0	5.0	26	8.8	15	18	8.2	5.1	5.3	.98	.89	2.9
27	1.9	5.5	28	18	14	19	8.2	4.9	3.7	.98	.89	2.9
28	2.0	14	21	17	14	18	8.0	5.6	3.4	1.1	12	4.2
29	6.7	8.5	20	17	------	14	7.7	7.4	3.4	1.1	26	40
30	29	8.5	25	14	------	14	7.4	4.9	3.4	1.1	3.7	6.1
31	14	------	19	16	------	27	------	4.9	------	1.0	1.5	------
TOTAL	127.0	166.3	592.2	370.5	413.8	448.2	449.0	217.9	174.2	63.02	80.12	198.7
MEAN	4.10	5.54	19.1	12.0	14.8	14.5	15.0	7.03	5.81	2.03	2.58	6.62
MAX	29	14	114	19	63	77	45	16	24	10	26	40
MIN	1.9	2.9	3.3	8.2	7.8	4.4	7.4	4.9	3.4	.94	.79	1.1
CFSM	.96	1.30	4.49	2.82	3.48	3.41	3.53	1.65	1.37	.48	.61	1.56
IN.	1.11	1.46	5.18	3.24	3.62	3.92	3.93	1.91	1.52	.55	.70	1.74

CAL YR 1973 TOTAL 3,387.50 MEAN 9.28 MAX 114 MIN 1.6 CFSM 2.18 IN 29.65
WTR YR 1974 TOTAL 3,300.94 MEAN 9.04 MAX 114 MIN .79 CFSM 2.13 IN 28.89

PEAK DISCHARGE (BASE, 200 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-17	1100	5.89	288	6-22	1615	4.99	210
3-21	1700	6.32	327	8-29	0215	6.77	372
4-15	0130	5.35	240	9-29	0330	5.68	269
6-17	0700	5.38	242				

01105600 OLD SWAMP RIVER NEAR SOUTH WEYMOUTH, MASS.

LOCATION.--Lat 42°11'25", long 70°56'43", Norfolk County, on left bank between divided lanes of State Highway 3 and 128, 100 ft (30 m) downstream from unnamed tributary entering from left, 0.4 mi (0.6 km) upstream from Whitmans Pond, and 1.2 mi (1.9 km) north of South Weymouth.

DRAINAGE AREA.--4.29 mi^2 (11.11 km^2).

PERIOD OF RECORD.--May 1966 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 70 ft (21 m) from topographic map.

AVERAGE DISCHARGE.--8 years, 9.81 ft^3/s (0.278 m^3/s), 31.05 in/yr (789 mm/yr).

EXTREMES.--Current year: Maximum discharge, 300 ft^3/s (8.50 m^3/s) Dec. 17 (gage height, 4.40 ft or 1.341 m); minimum, 0.29 ft^3/s (0.008 m^3/s) Aug. 3.

Period of record: Maximum discharge, 566 ft^3/s (16.0 m^3/s) Mar. 18, 1968 (gage height, 5.22 ft or 1.591 m); maximum gage height, 5.35 ft (1.631 m) Feb. 15, 1971 (ice jam); minimum discharge, 0.11 ft^3/s (0.003 m^3/s) Sept. 5, 6, 9, 10, 1971.

REMARKS.--Records good except those for period of no gage-height record, which are fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.0	9.0	7.2	15	11	9.8	21	8.1	7.2	1.6	.33	5.5
2	1.9	6.6	5.5	14	9.0	9.4	14	6.6	8.1	1.7	.33	3.5
3	4.6	5.3	5.3	12	8.1	8.7	12	6.9	6.0	1.8	1.8	6.6
4	4.2	4.4	5.3	11	9.0	8.4	14	9.0	4.6	1.5	.73	11
5	3.2	3.7	5.1	10	8.7	7.8	18	8.1	4.4	2.3	3.0	7.0
6	2.9	3.4	8.7	9.4	8.1	7.5	16	7.2	3.9	4.2	1.5	5.0
7	2.3	3.2	7.5	9.0	7.4	6.9	12	7.5	3.5	2.3	.90	15
8	2.2	3.0	6.6	8.4	7.8	6.3	9.8	8.7	3.5	1.7	.79	21
9	1.9	2.9	13	9.4	7.5	5.8	30	7.8	3.5	1.3	.73	10
10	1.8	2.7	20	9.0	7.2	5.5	43	13	2.9	1.1	.67	5.0
11	1.8	2.5	15	9.0	7.2	5.8	19	13	2.0	.84	.61	3.4
12	2.9	2.5	11	9.4	6.6	5.5	13	9.4	1.7	.67	.50	3.0
13	3.4	2.5	8.4	9.0	7.2	5.1	11	22	1.6	.61	.50	2.5
14	2.3	2.5	14	9.0	8.7	5.1	11	13	1.2	.50	.44	3.8
15	1.8	2.9	15	8.4	7.8	5.1	41	8.1	1.1	.39	.44	3.5
16	1.7	3.0	15	8.4	6.6	5.5	24	6.3	1.1	.39	.39	2.5
17	1.6	2.9	156	8.4	6.3	30	13	6.0	13	.39	.50	1.8
18	1.6	2.7	146	8.4	6.3	21	10	5.1	10	.39	5.8	1.7
19	1.9	2.9	32	8.1	6.3	12	10	4.4	3.9	1.2	2.2	1.6
20	1.9	2.9	19	11	34	9.4	9.0	3.9	2.5	1.1	1.3	1.5
21	1.9	2.9	46	14	30	44	8.1	3.7	2.2	.67	1.1	17
22	1.9	5.3	67	28	30	74	7.5	3.7	4.9	.50	.84	13
23	2.0	5.1	28	34	55	29	9.4	4.6	6.9	.39	.79	7.0
24	2.0	4.2	18	31	24	17	12	4.9	3.9	.33	.79	4.5
25	2.0	7.8	13	20	17	13	9.0	4.9	2.7	.33	.79	3.0
26	2.0	7.8	15	16	13	11	7.8	5.5	3.4	.33	.67	2.6
27	2.2	6.0	41	24	11	10	6.9	5.5	3.0	.31	.67	2.2
28	2.2	9.8	31	25	10	8.7	6.6	5.8	2.2	.33	11	2.0
29	3.4	12	18	30	------	7.2	6.0	5.3	1.9	.33	14	30
30	15	9.4	17	19	------	7.8	6.0	5.5	1.6	.31	11	35
31	16	------	16	14	------	24	------	4.9	------	.31	9.8	------
TOTAL	98.5	141.8	825.6	451.3	370.9	431.3	430.1	228.4	118.4	30.12	74.91	231.2
MEAN	3.18	4.73	26.6	14.6	13.2	13.9	14.3	7.37	3.95	.97	2.42	7.71
MAX	16	12	156	34	55	74	43	22	13	4.2	14	35
MIN	1.6	2.5	5.1	8.1	6.3	5.1	6.0	3.7	1.1	.31	.33	1.5
CFSM	.74	1.10	6.20	3.40	3.08	3.24	3.33	1.72	.92	.23	.56	1.80
IN.	.85	1.23	7.16	3.91	3.22	3.74	3.73	1.98	1.03	.26	.65	2.00

CAL YR 1973 TOTAL 3,546.20 MEAN 9.72 MAX 156 MIN 1.4 CFSM 2.27 IN 30.75
WTR YR 1974 TOTAL 3,432.53 MEAN 9.40 MAX 156 MIN .31 CFSM 2.19 IN 29.76

PEAK DISCHARGE (BASE, 90 ft^3/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-17	2300	4.40	300				
12-21	1515	3.55	102				
3-21	1745	3.75	137				

NOTE.--No gage-height record Sept. 4-30.

01105730 INDIAN HEAD RIVER AT HANOVER, MASS.

LOCATION.--Lat 42°06'02", long 70°49'23", Plymouth County, on right bank at downstream side of Elm Street Bridge, 0.3 mi (0.5 km) upstream from Iron Mine Brook, and 1 mi (2 km) southwest of Hanover.

DRAINAGE AREA.--30.3 mi² (78.5 km²).

PERIOD OF RECORD.--July 1966 to current year.

GAGE.--Water-stage recorder. Datum of gage is 3.16 ft (0.963 m) above mean sea level.

AVERAGE DISCHARGE.--8 years, 63.7 ft³/s (1.804 m³/s) 28.55 in/yr (725 mm/yr).

EXTREMES.--Current year: Maximum discharge, 718 ft³/s (20.3 m³/s) Dec. 17 (gage height, 5.52 ft or 1.682 m); minimum, 0.45 ft³/s (0.013 m³/s) July 19, minimum daily, 5.2 ft³/s (0.15 m³/s) July 19, Aug. 16.
Period of record: Maximum discharge, 1,390 ft³/s (39.4 m³/s) Mar. 18, 1968 (gage height, 7.13 ft or 2.173 m); minimum, 0.18 ft³/s (0.005 m³/s) July 13, 14, 1971; minimum daily, 0.23 ft³/s (0.007 m³/s) July 14, 1971.

REMARKS.--Records excellent. Some regulation by mills and by Wampatuck, Indian Head, Maquan, and other ponds above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	80	48	139	104	76	143	62	42	19	5.9	31
2	18	61	39	122	86	70	105	54	52	21	5.4	18
3	34	47	36	103	75	65	94	50	40	20	9.6	18
4	42	37	34	97	75	64	106	63	33	19	7.7	80
5	32	32	32	86	69	62	111	52	29	20	8.6	59
6	28	30	50	75	58	58	108	47	26	45	8.6	31
7	23	28	48	71	59	54	92	47	23	29	7.0	94
8	22	26	38	64	59	53	74	51	22	22	5.9	130
9	20	24	55	59	56	50	126	44	21	18	5.7	61
10	19	23	129	61	54	51	194	67	19	14	5.7	39
11	18	21	86	72	53	46	146	110	17	13	5.9	29
12	18	20	70	79	50	45	116	73	16	13	5.9	24
13	18	20	55	71	53	41	100	135	14	10	5.9	19
14	18	21	76	63	67	38	103	100	13	8.0	5.9	26
15	16	20	111	63	56	39	250	72	12	6.7	5.7	26
16	16	22	81	68	49	41	193	59	13	7.0	5.2	18
17	15	23	430	67	52	154	131	52	66	7.4	5.4	15
18	15	21	527	56	49	138	103	45	75	7.7	18	14
19	15	21	284	89	45	91	94	39	37	5.2	25	14
20	16	21	180	107	136	75	89	35	27	8.0	12	13
21	16	20	199	88	147	121	77	32	23	8.3	8.6	42
22	16	24	268	173	134	289	70	32	32	5.9	8.0	100
23	16	29	190	170	238	183	82	33	51	5.4	8.0	54
24	14	25	141	174	167	135	146	44	37	5.9	8.0	32
25	11	40	108	140	122	104	100	42	29	8.6	7.0	25
26	14	49	112	116	100	86	79	37	30	6.4	6.7	23
27	14	39	235	148	84	76	70	37	31	7.7	6.4	20
28	14	69	204	166	77	68	63	41	25	7.7	9.3	18
29	14	88	154	188	------	62	59	41	23	7.0	50	174
30	87	62	147	159	------	63	55	46	23	6.7	48	208
31	114	------	135	127	------	161	------	39	------	6.4	56	------
TOTAL	753	1,042	4,302	3,261	2,378	2,659	3,279	1,681	901	389.0	381.0	1,455
MEAN	24.3	34.7	139	105	84.9	85.8	109	54.2	30.0	12.5	12.3	48.5
MAX	114	88	527	188	238	289	250	135	75	45	56	208
MIN	11	20	32	56	45	38	55	32	12	5.2	5.2	13
CFSM	.80	1.15	4.59	3.47	2.80	2.83	3.60	1.79	.99	.41	.41	1.60
IN.	.92	1.28	5.28	4.00	2.92	3.26	4.03	2.06	1.11	.48	.47	1.79

CAL YR 1973 TOTAL 25,387.0 MEAN 69.6 MAX 527 MIN 10 CFSM 2.30 IN 31.17
WTR YR 1974 TOTAL 22,481.0 MEAN 61.6 MAX 527 MIN 5.2 CFSM 2.03 IN 27.60

PEAK DISCHARGE (BASE, 280 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-17	2330	5.52	718				
3-22	0545	4.18	316				
4-15	1415	4.05	291				

01105870 JONES RIVER AT KINGSTON, MASS.

LOCATION.--Lat 41°59'27", long 70°44'03", Plymouth County, on left bank 100 ft (30 m) downstream from Elm Street Bridge, at Kingston, 2.8 mi (4.5 km) upstream from mouth.

DRAINAGE AREA.--15.8 mi² (40.9 km²), excludes 4.09 mi² (10.59 km²) above outlet of Silver Lake from which flow is diverted for municipal supply of Brockton and Whitman.

PERIOD OF RECORD.--August 1966 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 10 ft (3 m) from topographic map.

AVERAGE DISCHARGE.--8 years, 32.9 ft³/s (0.932 m³/s).

EXTREMES.--Current year: Maximum discharge, 254 ft³/s (7.19 m³/s) Dec. 18 (gage height, 4.24 ft or 1.292 m); minimum daily, 4.2 ft³/s (0.12 m³/s) Aug. 20.

Period of record: Maximum discharge, 575 ft³/s (16.3 m³/s) Mar. 19, 1968 (gage height, 4.60 ft or 1.402 m); maximum gage height, 4.65 ft (1.417 m) May 26, 1967 (backwater from tide); minimum daily discharge, 0.59 ft³/s (0.017 m³/s) Aug. 11, 1966.

REMARKS.--Records good except those for periods of backwater from grass, which are fair. Flow regulated by pond above station. Flow affected at times during springs of 1968-74 by wastage from 4.09 mi² (10.59 km²) above outlet of Silver Lake. Surface flow may be affected by ground water that enters from or moves into adjacent basins.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17	58	62	47	39	42	57	39	27	17	14	16
2	17	50	59	57	42	44	49	37	37	17	13	10
3	31	42	45	50	42	42	47	34	34	14	14	9.0
4	39	37	39	49	36	39	41	34	28	13	14	13
5	33	33	39	50	36	37	41	38	25	13	12	13
6	30	33	42	45	34	39	42	30	24	13	14	10
7	28	27	44	44	38	36	39	30	23	12	13	18
8	25	24	39	41	42	31	34	31	23	15	13	25
9	20	21	42	37	41	31	45	30	27	15	13	20
10	15	17	59	41	39	31	62	45	28	15	11	13
11	13	17	68	52	37	31	57	62	24	14	10	14
12	18	18	57	50	34	30	49	58	23	11	8.0	11
13	16	20	44	49	34	28	45	59	15	10	8.0	10
14	15	17	54	54	39	25	44	52	15	9.0	8.0	9.0
15	17	20	65	49	42	27	82	42	15	8.0	8.0	9.0
16	17	17	64	49	41	33	84	36	14	10	6.5	9.0
17	21	16	168	56	36	59	68	30	24	11	7.0	9.0
18	23	18	235	42	34	64	54	27	28	12	12	9.0
19	25	24	161	52	34	57	45	23	25	10	11	11
20	27	20	117	50	52	49	39	21	20	10	4.2	11
21	21	20	104	56	64	59	37	18	17	8.0	5.1	11
22	17	20	104	71	66	99	34	20	27	9.0	6.5	15
23	17	21	91	75	85	73	34	23	33	18	6.5	12
24	18	21	77	87	71	68	36	27	30	11	5.5	11
25	20	25	61	78	52	58	36	27	25	9.0	7.0	11
26	20	30	56	66	54	47	34	25	23	9.0	7.0	11
27	20	31	78	66	49	42	30	25	21	11	7.0	9.0
28	20	42	82	69	49	41	34	28	20	15	7.0	9.0
29	20	71	71	78	------	41	41	30	20	15	7.0	17
30	49	66	68	77	------	39	39	28	18	15	13	20
31	61	------	47	56	------	52	------	28	------	15	20	------
TOTAL	730	876	2,348	1,743	1,263	1,395	1,379	1,033	713	383.0	306.3	375.0
MEAN	23.5	29.2	75.7	56.2	45.1	45.0	46.0	33.3	23.8	12.4	9.88	12.5
MAX	61	71	235	87	85	99	84	62	37	17	20	25
MIN	13	17	39	37	34	25	30	18	14	8.0	4.2	9.0

CAL YR 1973 TOTAL 14,726.7 MEAN 40.3 MAX 235 MIN 9.0
WTR YR 1974 TOTAL 12,544.3 MEAN 34.4 MAX 235 MIN 4.2

NOTE.--Backwater from grass Oct. 1 to Dec. 16, Apr. 10 to Sept. 30.

01105880 HERRING RIVER AT NORTH HARWICH, MASS.

LOCATION.--Lat 41°42'00", long 70°06'27", Barnstable County, on left bank 30 ft (9 m) upstream from bridge on U.S. Route 6, 0.8 mi (1.3 km) northeast of North Harwich, 1.1 mi (1.8 km) downstream from Hinckleys Pond, and 2 mi (3 km) northwest of Harwich.

DRAINAGE AREA.--About 9.4 mi^2 (24.3 km^2).

PERIOD OF RECORD.--June 1966 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 10 ft (3 m) from topographic map.

AVERAGE DISCHARGE.--8 years, 11.0 ft^3/s (0.312 m^3/s).

EXTREMES.--Current year: Maximum discharge, 40 ft^3/s (1.13 m^3/s) Oct. 3 (gage height, 3.98 ft or 1.213 m); minimum, 2.5 ft^3/s (0.071 m^3/s) July 29 to Aug. 4.

Period of record: Maximum discharge, 59 ft^3/s (1.67 m^3/s) Sept. 3, 1972 (gage height, 4.43 ft or 1.350 m); maximum gage height, 4.88 ft (1.487 m) June 6, 1967; minimum discharge, 0.85 ft^3/s (0.024 m^3/s) Oct. 4-9, 1966.

REMARKS.--Records good except those for periods of no gage-height record, which are fair. Flow regulated by many ponds (some with no outlets) above station. Surface flow may be affected by ground water that enters from or moves into adjacent basins.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.9	14	13	15	16	18	14	16	16	13	2.5	8.9
2	9.6	14	13	15	15	16	14	15	17	13	2.5	9.2
3	18	13	12	15	15	16	14	15	17	12	2.5	8.9
4	17	12	12	15	16	16	14	16	15	12	2.5	8.9
5	16	12	12	15	16	16	15	16	15	12	2.6	8.2
6	15	12	13	15	15	16	16	16	15	12	2.7	7.8
7	14	12	13	15	17	16	16	17	14	12	3.2	9.6
8	14	12	13	15	17	16	16	16	14	11	4.3	8.9
9	14	11	13	15	17	16	17	17	14	11	4.0	8.5
10	13	11	14	15	17	15	19	17	14	11	5.0	8.5
11	13	11	14	15	17	15	19	17	14	11	7.0	7.8
12	12	11	14	15	18	15	18	17	14	11	7.0	7.8
13	12	11	14	9.4	18	15	18	17	14	10	7.0	7.8
14	12	11	14	6.3	18	15	18	17	13	9.4	7.0	7.6
15	11	11	14	6.3	17	15	18	16	12	9.4	7.0	7.2
16	11	11	13	6.3	16	15	17	16	12	10	7.0	6.7
17	9.4	11	13	6.3	18	16	17	16	15	10	7.5	6.7
18	8.2	11	13	6.2	18	17	16	16	15	9.6	7.5	5.3
19	10	10	13	6.2	18	17	16	15	15	9.6	7.0	3.7
20	11	10	13	6.2	18	18	16	15	15	9.6	7.0	3.7
21	11	10	13	6.2	17	17	16	15	15	9.4	7.0	3.7
22	11	11	13	6.2	18	18	16	15	15	9.2	6.5	4.0
23	11	11	13	6.0	18	18	16	16	15	8.9	7.0	3.8
24	11	11	13	6.0	18	17	16	16	15	8.7	7.5	4.4
25	11	11	13	6.0	19	16	16	15	15	8.5	7.5	4.1
26	11	12	15	10	19	16	16	16	15	8.5	7.5	4.9
27	11	11	16	15	18	16	16	16	14	8.5	7.5	3.7
28	10	13	16	15	18	16	16	17	14	8.2	7.6	3.5
29	10	14	16	16	------	15	16	17	14	5.8	8.2	4.9
30	14	13	15	17	------	15	16	16	14	2.5	8.9	5.1
31	14	------	15	16	------	15	------	16	------	2.5	9.4	------
TOTAL	375.1	348	421	352.6	482	496	488	498	436	299.3	187.4	193.8
MEAN	12.1	11.6	13.6	11.4	17.2	16.0	16.3	16.1	14.5	9.65	6.05	6.46
MAX	18	14	16	17	19	18	19	17	17	13	9.4	9.6
MIN	8.2	10	12	6.0	15	15	14	15	12	2.5	2.5	3.5

CAL YR 1973 TOTAL 6,250.9 MEAN 17.1 MAX 29 MIN 8.2
WTR YR 1974 TOTAL 4,577.2 MEAN 12.5 MAX 19 MIN 2.5

NOTE.--No gage-height record Mar. 5 to Apr. 2, Aug. 10-27.

01106000 ADAMSVILLE BROOK AT ADAMSVILLE, R.I.

LOCATION.--Lat 41°33'30", long 71°07'47", Newport County, on right bank 0.2 mi (0.3 km) upstream from milldam at Adamsville and 0.7 mi (1.1 km) upstream from mouth.

DRAINAGE AREA.--7.91 mi² (20.49 km²).

PERIOD OF RECORD.--October 1940 to current year.

GAGE.--Water-stage recorder. Concrete control since Sept. 16, 1942. Altitude of gage is 15 ft (5 m) from topographic map.

AVERAGE DISCHARGE.--34 years, 14.3 ft³/s (0.405 m³/s), 24.55 in/yr (624 mm/yr).

EXTREMES.--Current year: Maximum discharge, 213 ft³/s (6.03 m³/s) Dec. 17 (gage height, 6.57 ft or 2.003 m); minimum, 0.03 ft³/s (0.001 m³/s) Aug. 21.

Period of record: Maximum discharge, 316 ft³/s (8.95 m³/s) Dec. 27, 1969 (gage height, 7.65 ft or 2.332 m); maximum gage height, 7.70 ft (2.347 m) Mar. 18, 1968; minimum discharge, 0.03 ft³/s (0.001 m³/s) Sept. 23, 24, Oct. 3, 4, 1950, Sept. 24, 25, 29, 1971, Aug. 21, 1974.

REMARKS.--Records good. Records of chemical analyses and water temperature for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1701: 1955-59. WRD Mass., N.H., R.I., Vt., 1971: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.6	15	22	29	26	15	28	9.4	11	4.1	.25	.10
2	4.3	13	16	27	21	15	24	8.2	15	3.6	.20	.13
3	9.4	11	12	24	18	14	20	9.4	13	3.3	.20	.10
4	9.4	9.7	10	21	16	13	29	15	10	3.1	.20	.25
5	7.8	8.6	9.0	20	14	13	36	14	8.2	2.9	.20	.25
6	6.5	7.8	14	17	12	12	31	12	6.8	4.6	.16	.31
7	5.9	7.1	16	17	12	11	26	11	6.2	4.3	.16	2.1
8	4.9	6.5	15	15	13	11	21	9.7	5.5	4.1	.20	2.9
9	4.3	6.5	16	13	13	10	30	8.6	4.9	3.3	.20	2.4
10	4.1	6.2	23	12	12	10	54	13	4.6	2.6	.20	1.9
11	3.6	5.9	23	15	12	9.4	43	24	3.8	1.9	.20	1.3
12	2.9	5.5	20	18	11	9.2	32	23	3.6	1.5	.16	1.0
13	2.9	5.5	16	19	12	8.7	27	23	3.1	1.2	.13	.77
14	2.6	5.5	18	17	15	8.2	26	20	2.6	1.0	.13	.65
15	4.1	5.5	23	15	16	8.0	26	16	2.4	.90	.10	.55
16	6.2	4.9	23	15	13	8.0	23	13	2.4	.90	.08	.46
17	6.2	4.6	124	15	12	26	20	11	9.4	.90	.04	.38
18	4.9	4.3	183	13	11	33	17	10	14	.55	.04	.38
19	4.3	4.1	93	23	11	26	15	9.0	13	.46	.04	.31
20	3.6	3.8	48	33	21	21	14	7.8	9.4	.46	.04	.31
21	2.6	3.3	47	32	31	28	13	7.1	7.8	.38	.04	.25
22	1.7	4.6	69	64	29	68	12	6.8	16	.31	.04	.46
23	1.3	4.6	51	64	39	50	12	6.8	16	.31	.06	.65
24	1.3	4.6	36	53	33	34	12	7.1	13	.25	.04	.77
25	1.3	6.5	27	40	26	25	11	10	9.7	.25	.04	.65
26	1.3	7.1	26	31	21	20	11	10	7.8	.25	.06	.55
27	1.5	6.8	49	37	17	16	10	11	6.5	.20	.08	.38
28	1.3	20	54	42	16	14	9.7	13	5.9	.20	.13	.38
29	3.1	36	40	45	------	13	9.4	13	4.9	.38	.13	4.6
30	13	31	34	40	------	13	9.0	13	4.6	.46	.16	4.1
31	17	------	30	31	------	25	------	11	------	.38	.10	------
TOTAL	147.9	265.5	1,187.0	857	503	587.5	651.1	375.9	241.1	49.04	3.81	29.34
MEAN	4.77	8.85	38.3	27.6	18.0	19.0	21.7	12.1	8.04	1.58	.12	.98
MAX	17	36	183	64	39	68	54	24	16	4.6	.25	4.6
MIN	1.3	3.3	9.0	12	11	8.0	9.0	6.8	2.4	.20	.04	.10
CFSM	.60	1.12	4.84	3.49	2.28	2.40	2.74	1.53	1.02	.20	.02	.12
IN.	.70	1.25	5.58	4.03	2.37	2.76	3.06	1.77	1.13	.23	.02	.14

CAL YR 1973 TOTAL 6,394.36 MEAN 17.5 MAX 183 MIN .71 CFSM 2.21 IN 30.07
WTR YR 1974 TOTAL 4,898.19 MEAN 13.4 MAX 183 MIN .04 CFSM 1.69 IN 23.04

PEAK DISCHARGE (BASE, 120 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-17	1930	6.57	213				

01107000 DORCHESTER BROOK NEAR BROCKTON, MASS.

LOCATION.--Lat 42°03'41", long 71°03'59", Plymouth County, on right bank 20 ft (6 m) upstream from bridge on Pearl Street and 3 mi (5 km) southwest of Brockton.

DRAINAGE AREA.--4.67 mi² (12.10 km²).

PERIOD OF RECORD.--October 1962 to September 1974 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 100 ft (30 m) from topographic map.

AVERAGE DISCHARGE.--11 years (1963-74), 8.33 ft³/s (0.236 m³/s), 24.22 in/yr (615 mm/yr).

EXTREMES.--Current year: Maximum discharge, 93 ft³/s (2.63 m³/s) Dec. 17 (gage height, 3.66 ft or 1.116 m); minimum, 0.07 ft³/s (0.002 m³/s) Aug. 16, 17, 27, 28.
Period of record: Maximum discharge, 359 ft³/s (10.2 m³/s) Mar. 18, 1968 (gage height, 5.86 ft or 1.786 m); no flow for part of Sept. 8, 9, 1964.

REMARKS.--Records good. Recording rain gage at station since April 1963 (no winter records).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.8	13	13	20	17	12	15	8.1	6.5	1.1	.12	1.8
2	2.1	12	10	18	13	11	13	7.8	6.8	.93	.09	1.2
3	3.1	8.5	9.4	16	12	10	12	7.8	6.5	1.3	1.0	1.2
4	3.1	6.7	8.7	15	11	8.7	13	8.1	5.9	1.3	.37	3.6
5	3.1	5.6	8.4	14	11	7.8	14	7.8	5.1	1.7	.54	4.2
6	2.8	4.6	11	12	9.0	8.4	13	7.8	3.8	3.8	.48	2.9
7	2.7	3.8	12	11	9.2	8.7	12	7.4	3.6	5.9	.51	7.8
8	2.5	3.6	11	11	9.2	8.1	10	7.1	3.3	8.7	.42	10
9	2.5	3.3	14	11	9.2	7.4	15	6.5	2.7	6.8	.32	7.0
10	2.1	3.3	25	8.4	8.4	7.1	24	7.4	1.7	4.8	.25	4.2
11	2.1	3.2	24	9.7	8.1	6.5	21	7.8	1.4	3.8	.18	3.3
12	1.9	3.1	21	11	7.8	6.5	17	9.0	1.4	1.7	.14	1.9
13	1.8	3.3	20	11	7.8	5.9	14	11	1.3	1.2	.11	1.3
14	1.8	3.1	22	9.4	9.0	5.6	13	11	1.1	.86	.10	1.5
15	1.1	3.1	22	9.0	8.7	5.6	29	9.7	.97	.67	.09	1.5
16	1.1	3.3	19	9.7	7.4	6.2	26	8.7	.92	.52	.08	1.4
17	1.1	3.3	55	9.7	7.3	19	18	8.4	4.8	.49	.32	1.0
18	1.1	3.1	76	8.7	7.3	20	14	8.1	8.2	.40	.54	.86
19	.97	3.1	42	11	7.0	17	12	7.8	5.6	.40	.17	.79
20	.89	3.3	27	13	26	13	12	7.1	3.7	.40	.17	.68
21	.89	3.3	32	14	32	21	10	3.6	3.1	.35	.16	1.2
22	.89	3.3	42	23	28	52	9.4	3.6	2.7	.30	.14	3.2
23	1.1	3.3	31	27	34	35	11	4.4	2.2	.26	.13	3.6
24	1.1	3.3	22	29	26	22	16	5.1	1.7	.22	.12	3.1
25	.97	4.8	17	24	20	15	13	5.6	1.5	.18	.09	2.0
26	.89	7.1	18	19	16	13	11	5.4	1.6	.15	.08	1.4
27	.89	9.0	33	23	14	12	9.7	5.1	1.7	.14	.07	1.0
28	.89	14	31	26	12	10	8.7	5.1	1.6	.14	.10	.86
29	.89	20	25	27	-------	9.4	7.8	5.6	1.5	.14	.38	15
30	4.1	15	23	24	-------	9.0	7.4	5.9	1.3	.13	.68	15
31	9.5	-------	19	21	-------	14	-------	5.9	-------	.13	1.4	-------
TOTAL	63.77	179.4	743.5	495.6	387.4	406.9	421.0	219.7	94.19	48.91	9.35	104.49
MEAN	2.06	5.98	24.0	16.0	13.8	13.1	14.0	7.09	3.14	1.58	.30	3.48
MAX	9.5	20	76	29	34	52	29	11	8.2	8.7	1.4	15
MIN	.89	3.1	8.4	8.4	7.0	5.6	7.4	3.6	.92	.13	.07	.68
CFSM	.44	1.28	5.14	3.43	2.96	2.81	3.00	1.52	.67	.34	.06	.75
IN.	.51	1.43	5.92	3.95	3.09	3.24	3.35	1.75	.75	.39	.07	.83

CAL YR 1973 TOTAL 3,741.47 MEAN 10.3 MAX 76 MIN .89 CFSM 2.21 IN 29.80
WTR YR 1974 TOTAL 3,174.21 MEAN 8.70 MAX 76 MIN .07 CFSM 1.86 IN 25.28

PEAK DISCHARGE (BASE, 55 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-17	2045	3.66	93				
3-22	0200	3.17	58				

01108000 TAUNTON RIVER AT STATE FARM, NEAR BRIDGEWATER, MASS.

LOCATION.--Lat 41°56'05", long 70°57'18", Plymouth County, on right bank at State Farm, 1 mi (2 km) upstream from Sawmill Brook, 3.5 mi (5.6 km) northwest of Middleboro, and 4 mi (6 km) southeast of Bridgewater.

DRAINAGE AREA.--260 mi² (673 km²).

PERIOD OF RECORD.--October 1929 to current year. Prior to October 1969, published as "at State Farm."

GAGE.--Water-stage recorder. Datum of gage is 9.61 ft (2.929 m) above mean sea level. Prior to Oct. 1, 1931, inverted nonrecording gage at site 40 ft (12 m) downstream with zero of gage at 10.02 ft (3.054 m) on present gage. Oct. 1, 1931, to June 8, 1934, nonrecording gage and June 9, 1934, to Oct. 12, 1939, water-stage recorder, at site 40 ft (12 m) downstream at present datum.

AVERAGE DISCHARGE.--45 years, 485 ft³/s (13.74 m³/s), 25.33 in/yr (643 mm/yr), adjusted for diversions.

EXTREMES.--Current year: Maximum discharge, 3,330 ft³/s (94.3 m³/s) Dec. 19 (gage height, 10.80 ft or 3.292 m); minimum, 44 ft³/s (1.25 m³/s) Aug. 15, 16, 17; minimum daily, 45 ft³/s (1.27 m³/s) Aug. 16.
Period of record: Maximum discharge, 4,980 ft³/s (141 m³/s) Mar. 20, 1968 (gage height, 14.48 ft or 4.414 m); minimum, 8 ft³/s (0.23 m³/s) Sept. 10, 1944; minimum daily, 9 ft³/s (0.25 m³/s) Sept. 9-12, 1944.

REMARKS.--Records good. Diversions to and from basin above station for municipal supplies: to the basin from Silver Lake for Brockton and other towns and from Great Sandy Bottom Pond for Abington; from the basin from ponds at head of Nemasket River for New Bedford, Taunton, and other towns. Flow regulated by reservoirs and small powerplants above station. Records of suspended-sediment loads for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 756: Drainage area. WSP 781: 1934. WSP 1051: 1933. WSP 1201: 1931. WSP 1301: 1930(M), 1933(M), (1935(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	233	880	846	1,310	1,140	412	610	455	453	140	88	149
2	257	518	437	1,250	1,080	610	790	428	497	144	95	141
3	263	510	352	1,140	918	758	737	465	370	155	73	122
4	441	411	307	1,050	847	722	700	437	427	138	117	244
5	314	337	285	954	784	700	747	433	288	134	75	263
6	330	242	338	888	724	684	753	424	271	135	72	205
7	285	258	377	967	857	631	746	415	244	132	63	271
8	224	247	442	825	848	598	674	424	222	126	63	480
9	203	220	471	794	831	557	726	401	212	132	96	465
10	190	206	726	631	810	593	1,060	437	195	134	98	268
11	177	182	754	704	638	519	1,120	703	179	144	53	233
12	166	170	847	778	618	501	1,020	670	167	132	51	199
13	157	167	803	758	661	478	919	705	152	117	49	167
14	149	165	561	768	695	448	876	804	141	106	51	159
15	142	165	771	761	688	415	1,190	697	132	104	46	152
16	143	164	752	733	861	327	1,530	606	127	94	45	122
17	127	176	1,560	723	609	688	1,380	510	244	90	48	104
18	123	167	3,060	842	552	421	1,130	448	455	86	114	97
19	125	168	3,260	761	557	424	937	342	357	91	101	90
20	122	147	2,740	879	814	733	838	368	274	95	81	86
21	121	158	2,260	880	1,040	737	765	323	240	99	66	90
22	121	168	2,240	1,200	1,100	1,350	872	306	267	81	51	255
23	119	162	2,140	1,420	1,410	1,520	621	290	267	77	61	271
24	123	176	1,900	1,480	1,470	1,330	743	314	271	72	66	204
25	123	230	1,570	1,440	1,290	1,110	700	340	259	72	61	166
26	125	311	1,340	1,310	1,120	934	701	348	244	68	53	144
27	132	316	1,440	1,260	980	804	631	357	226	66	53	124
28	134	439	1,700	1,360	882	644	562	365	204	64	52	117
29	143	651	1,610	1,420	------	611	515	365	192	63	104	365
30	408	624	1,470	1,420	------	548	473	383	192	64	170	756
31	727	------	1,340	1,320	------	661	------	365	------	63	255	------
TOTAL	6,241	8,716	38,070	31,568	23,856	22,963	25,118	13,881	7,473	3,504	2,394	6,451
MEAN	201	291	1,228	1,018	852	741	837	448	249	113	77.2	215
MAX	727	880	3,260	1,480	1,470	1,520	1,530	804	455	145	255	756
MIN	119	158	285	631	557	327	473	290	127	63	45	86
MEAN†	226	312	1,246	1,038	869	757	856	469	270	132	107	239
CFSM†	.86	1.20	4.79	3.99	3.34	2.91	3.29	1.80	1.04	.51	.41	.92
IN.†	.99	1.34	5.53	4.60	3.48	3.36	3.67	2.08	1.16	.59	.47	1.03

CAL YR 1973 TOTAL 231,286 MEAN 634 MAX 3,260 MIN 94 MEAN† 655 CFSM† 2.52 IN† 34.23
WTR YR 1974 TOTAL 190,245 MEAN 521 MAX 3,260 MIN 45 MEAN† 542 CFSM† 2.08 IN† 28.31

† Adjusted for diversions to and from basin for municipal supplies of New Bedford, Taunton, Brockton, Abington, and other towns. Records of diversion furnished by municipalities.

01108500 WADING RIVER AT WEST MANSFIELD, MASS.

LOCATION.--Lat 42°00'00", long 71°15'38", Bristol County, on right bank 200 ft (60 m) downstream from Balcolm Street Bridge at West Mansfield, 2 mi (3 km) upstream from Hodges Brook, and 3 mi (5 km) southwest of Mansfield.

DRAINAGE AREA.--19.2 mi² (49.7 km²).

PERIOD OF RECORD.--October 1953 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 120.85 ft (36.835 m) above mean sea level.

AVERAGE DISCHARGE.--21 years, 34.7 ft³/s (0.983 m³/s), 24.54 in/yr (623 mm/yr), adjusted for diversion.

EXTREMES.--Current year: Maximum discharge, 162 ft³/s (4.59 m³/s) Dec. 18 (gage height, 5.07 ft or 1.545 m); minimum daily, 0.45 ft³/s (0.013 m³/s) Nov. 20.
Period of record: Maximum discharge, 541 ft³/s (15.3 m³/s) Mar. 19, 1968 (gage height, 6.60 ft or 2.012 m); no flow Oct. 22-24, 1957 (caused by temporary storage upstream).

REMARKS.--Records good. Flow regulated by Lake Mirimichi and other lakes and reservoirs above station. Diversion above station for municipal supply of Attleboro (see table below for figures of diversion) and small diversions to and from basin for other municipal supplies.

REVISIONS (WATER YEARS).--WSP 1621: 1953-58 (monthly runoff). WRD Mass., N.H., R.I., Vt. 1971: 1970.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.9	14	15	84	67	62	72	41	24	7.2	4.6	4.7
2	6.9	11	14	76	63	58	66	42	27	6.3	4.8	4.1
3	8.2	9.2	13	70	62	53	62	37	28	7.2	8.0	4.4
4	8.2	7.9	12	67	60	52	63	39	25	7.5	6.5	5.9
5	7.9	6.9	12	63	55	49	66	37	21	7.3	6.1	4.7
6	7.1	8.8	18	59	50	46	65	35	15	7.5	5.6	4.0
7	6.9	11	21	56	52	43	58	35	12	8.1	5.0	8.0
8	6.9	9.7	21	52	52	41	53	34	11	8.2	4.9	7.6
9	6.7	7.9	25	50	49	38	63	32	11	8.8	4.9	5.8
10	6.2	6.5	35	54	46	37	81	35	11	9.3	4.8	4.9
11	6.0	6.0	35	60	44	35	76	42	8.6	8.1	5.1	4.4
12	6.2	6.5	31	61	41	31	73	41	7.5	7.3	5.8	4.2
13	6.2	7.1	27	51	40	29	70	49	7.0	6.2	6.0	4.1
14	6.2	6.7	37	47	40	25	72	51	6.3	5.7	4.2	4.3
15	6.2	6.0	51	45	37	21	89	45	5.9	5.5	4.0	3.4
16	6.0	6.2	55	44	36	20	89	41	6.2	5.3	4.4	3.0
17	6.0	6.2	104	42	37	43	79	37	11	4.5	3.8	2.6
18	5.8	6.0	155	39	36	50	73	34	15	3.4	5.9	2.2
19	5.8	4.7	154	45	34	44	70	30	14	3.6	4.9	1.9
20	6.0	.45	142	48	71	40	69	29	12	3.1	5.9	1.8
21	6.2	.78	151	47	79	61	64	29	9.7	1.2	5.3	2.6
22	6.2	1.4	151	60	77	130	60	27	9.7	1.2	3.0	11
23	6.2	3.9	133	63	93	137	62	25	8.1	1.4	3.2	10
24	7.5	7.1	114	66	92	134	69	30	8.0	1.8	3.2	9.0
25	6.5	13	101	66	83	125	63	37	7.3	2.0	3.1	7.9
26	6.5	13	96	64	75	112	56	34	7.1	2.3	3.0	7.3
27	6.9	9.0	111	73	66	96	50	27	7.0	2.8	3.0	6.8
28	7.3	9.9	106	79	63	84	47	24	8.3	3.2	3.0	7.1
29	8.4	13	99	84	------	76	44	22	8.5	4.0	5.4	19
30	18	14	96	81	------	70	41	23	7.4	5.0	6.7	17
31	19	------	90	71	------	74	------	23	------	4.9	6.4	------
TOTAL	231.0	233.83	2,225	1,867	1,600	1,916	1,965	1,067	359.6	159.9	150.5	183.7
MEAN	7.45	7.79	71.8	60.2	57.1	61.8	65.5	34.4	12.0	5.16	4.85	6.12
MAX	19	14	155	84	93	137	89	51	28	9.3	8.0	19
MIN	5.8	.45	12	39	34	20	41	22	5.9	1.2	3.0	1.8
(†)	3.16	2.08	3.75	3.52	3.73	3.63	3.54	3.56	3.61	3.03	3.97	3.81

CAL YR 1973 TOTAL 12,733.23 MEAN 34.9 MAX 155 MIN .45 MEAN‡ 38.1 CFSM‡ 1.98 IN‡ 26.94
WTR YR 1974 TOTAL 11,958.53 MEAN 32.8 MAX 155 MIN .45 MEAN‡ 36.2 CFSM‡ 1.89 IN‡ 25.61

† Diversion, in cubic feet per second, for municipal supply of Attleboro; records furnished by city of Attleboro.
‡ Adjusted for diversion.

01109000 WADING RIVER NEAR NORTON, MASS.

LOCATION.--Lat 41°56'51", long 71°10'30", Bristol County, on left bank 200 ft (60 m) downstream from bridge on State Highway 140, 0.9 mi (1.4 km) upstream from confluence with Rumford River, and 1.5 mi (2.4 km) southeast of Norton.

DRAINAGE AREA.--42.4 mi² (109.8 km²).

PERIOD OF RECORD.--June 1925 to current year.

GAGE.--Water-stage recorder. Datum of gage is 49.63 ft (15.127 m) above mean sea level. Prior to May 5, 1933, nonrecording gage at same site (at datum 0.62 ft or 0.189 m higher prior to Oct. 1, 1930, and at present datum thereafter).

AVERAGE DISCHARGE.--49 years, 72.7 ft³/s (2.059 m³/s), 23.28 in/yr (591 mm/yr), adjusted for diversion.

EXTREMES.--Current year: Maximum discharge, 527 ft³/s (14.9 m³/s) Dec. 18 (gage height, 9.18 ft or 2.798 m); minimum, 1.5 ft³/s (0.042 m³/s) Aug. 25, 26.
Period of record: Maximum discharge, 1,460 ft³/s (41.3 m³/s) Mar. 19, 1968 (gage height, 11.47 ft or 3.496 m); minimum, 0.3 ft³/s (0.008 m³/s) Sept. 10, 1926.

REMARKS.--Records excellent. Flow regulated to some extent by Lake Mirimichi and other lakes and reservoirs above station. Diversion above station for municipal supply of Attleboro (see table below for figures of diversion) and small diversions to and from basin for other municipal supplies.

REVISIONS (WATER YEARS).--WSP 871: 1938. WSP 1301: 1929-33(M). WSP 1621: 1925-58 (monthly runoff).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	28	79	58	195	164	134	161	86	53	18	7.9	18
2	28	65	52	184	146	133	145	83	63	16	6.9	11
3	27	55	48	163	130	122	135	80	59	16	7.8	12
4	13	46	45	154	130	116	136	85	54	17	13	21
5	28	37	43	143	121	110	143	81	48	16	12	20
6	29	37	55	136	107	104	140	76	43	18	10	13
7	26	40	60	128	105	98	131	72	37	17	9.1	33
8	24	33	56	116	103	91	117	70	32	19	8.8	45
9	23	32	65	101	101	86	145	66	29	18	8.1	31
10	22	30	106	95	93	82	213	79	28	16	7.6	25
11	21	27	108	110	90	77	193	103	26	16	7.1	19
12	20	26	95	122	86	73	168	96	20	14	8.5	15
13	19	25	82	125	83	67	155	123	17	13	8.9	13
14	19	26	102	110	89	64	157	125	17	12	7.6	13
15	14	24	159	99	85	60	222	108	15	11	6.1	14
16	17	25	148	99	76	37	228	94	16	10	4.7	12
17	17	26	288	108	77	98	191	85	38	10	4.5	9.3
18	15	24	505	89	75	142	168	75	47	9.2	15	8.5
19	16	24	362	90	72	120	154	68	38	8.1	12	7.9
20	16	22	294	112	163	106	146	60	31	9.1	9.1	7.4
21	16	18	294	117	220	126	137	56	30	8.6	7.7	11
22	16	19	330	172	196	296	127	56	30	7.9	8.1	27
23	17	19	289	195	244	290	123	53	28	6.6	6.6	31
24	16	19	244	204	215	250	142	59	26	6.2	4.2	27
25	16	32	206	193	185	231	138	66	24	5.2	1.6	22
26	16	44	204	175	167	208	121	71	22	5.0	1.9	20
27	15	43	257	190	150	188	110	64	18	3.9	2.3	17
28	15	51	260	219	137	166	100	59	17	1.9	3.6	16
29	17	68	229	216	-------	149	93	54	18	2.5	9.2	90
30	46	65	216	203	-------	140	87	54	19	6.2	18	101
31	75	-------	207	173	-------	156	-------	52	-------	9.3	25	-------
TOTAL	692	1.081	5.467	4.528	3.610	4.120	4.426	2.361	943	346.7	260.9	710.1
MEAN	22.3	36.0	176	146	129	133	148	76.2	31.4	11.2	8.42	23.7
MAX	75	79	505	219	244	296	228	125	63	19	25	101
MIN	13	18	43	89	72	37	87	52	15	1.9	1.6	7.4
(†)	3.18	2.08	3.75	3.52	3.73	3.63	3.54	3.56	3.61	3.03	3.97	3.81

CAL YR 1973 TOTAL 31.977.7 MEAN 87.6 MAX 505 MIN 5.3 MEAN‡ 90.8 CFSM‡ 2.14 IN‡ 29.08
WTR YR 1974 TOTAL 28.545.7 MEAN 78.2 MAX 505 MIN 1.6 MEAN‡ 81.7 CFSM‡ 1.93 IN‡ 26.15

PEAK DISCHARGE (BASE, 280 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-18	1800	9.18	527				
12-22	0400	8.03	339				
3-22	2000	7.94	327				

† Diversion, in cubic feet per second, for municipal supply of Attleboro; records furnished by city of Attleboro.
‡ Adjusted for diversion.

01109060 THREEMILE RIVER AT NORTH DIGHTON, MASS.

LOCATION.--Lat 41°51'58", long 71°07'24", Bristol County, on right bank 800 ft (250 m) downstream from Warner Boulevard at North Dighton and 1.4 mi (2.3 km) upstream from mouth.

DRAINAGE AREA.--83.8 mi² (217.0 km²).

PERIOD OF RECORD.--July 1966 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 10 ft (3 m) from topographic map.

AVERAGE DISCHARGE.--8 years, 169 ft³/s (4.786 m³/s).

EXTREMES.--Current year: Maximum discharge, 1,090 ft³/s (30.9 m³/s) Dec. 19 (gage height, 5.77 ft or 1.759 m); minimum, 5.3 ft³/s (0.15 m³/s) Aug. 27.

Period of record: Maximum discharge, 2,490 ft³/s (70.5 m³/s) Mar. 19, 1968 (gage height, 8.30 ft or 2.530 m); minimum, 5.3 ft³/s (0.15 m³/s) Aug. 27, 1974.

REMARKS.--Records good. Flow regulated by Lake Mirimichi and other lakes and reservoirs above staton. Diversions to and from basin above station for municipal supplies may be compensating.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	67	131	130	414	351	264	293	169	113	42	15	40
2	67	128	116	381	317	258	293	163	120	40	15	29
3	80	107	107	347	275	244	270	160	121	40	14	27
4	83	90	104	315	249	228	261	162	113	39	16	53
5	65	78	99	284	219	212	267	158	105	33	19	48
6	69	70	108	262	208	203	276	150	98	41	18	35
7	73	66	113	247	215	193	265	142	89	35	16	62
8	67	64	115	228	189	182	245	140	83	40	16	86
9	65	61	123	187	192	170	268	139	76	37	14	66
10	62	59	158	164	164	160	363	156	74	30	13	47
11	62	55	180	204	185	150	421	183	69	25	11	37
12	60	53	180	223	160	148	379	185	54	23	9.6	30
13	60	52	160	203	169	140	333	210	47	22	10	27
14	58	52	164	210	170	133	317	212	43	20	11	25
15	56	52	201	213	168	132	426	210	42	19	9.6	24
16	54	51	244	201	152	128	501	185	41	18	8.5	23
17	52	51	495	188	153	186	453	164	72	18	7.8	19
18	50	51	892	155	150	225	373	146	93	18	21	18
19	41	51	1.010	206	146	249	324	133	82	19	25	17
20	40	49	764	207	204	217	291	121	67	21	18	16
21	40	47	674	222	320	240	271	113	62	19	15	20
22	40	46	711	311	398	412	252	110	70	17	13	51
23	40	50	675	378	469	609	240	110	64	15	12	52
24	40	101	572	420	494	571	246	113	59	15	12	46
25	40	50	448	418	420	497	256	121	54	15	13	38
26	40	104	417	378	357	436	248	126	52	14	6.8	34
27	40	95	494	368	312	376	223	130	51	13	5.6	30
28	40	142	548	412	280	334	205	126	47	13	6.4	28
29	40	144	523	467	------	291	190	120	43	11	13	98
30	89	144	476	444	------	267	177	118	43	10	39	162
31	128	------	439	401	------	277	------	113	------	12	53	------
TOTAL	1.885	2.294	11.440	9.058	7.086	8.132	8.927	4.588	2.147	734	476.3	1.288
MEAN	58.2	76.5	369	292	253	262	298	148	71.6	23.7	15.4	42.9
MAX	128	144	1.010	467	494	609	501	212	121	42	53	162
MIN	40	46	99	155	146	128	177	110	41	10	5.6	16
CFSM	.69	.91	4.40	3.48	3.02	3.13	3.56	1.77	.85	.28	.18	.51
IN.	.80	1.02	5.08	4.02	3.15	3.61	3.96	2.04	.95	.33	.21	.57

CAL YR 1973 TOTAL 67.508.0 MEAN 185 MAX 1.010 MIN 31 CFSM 2.21 IN 29.97
WTR YR 1974 TOTAL 57.975.3 MEAN 159 MAX 1.010 MIN 5.6 CFSM 1.90 IN 25.74

PEAK DISCHARGE (BASE, 600 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-19	0215	5.77	1,090				
3-23	1230	4.79	626				

01109070 SEGREGANSET RIVER NEAR DIGHTON, MASS.

LOCATION.--Lat 41°50'25", long 71°08'36", Bristol County, on left bank 50 ft (15 m) upstream from twin culverts on Center Street and 1.8 mi (2.9 km) northwest of Dighton.

DRAINAGE AREA.--10.6 mi² (27.5 km²).

PERIOD OF RECORD.--July 1966 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 30 ft (9 m) from topographic map.

AVERAGE DISCHARGE.--8 years, 22.3 ft³/s (0.632 m³/s), 28.57 in/yr (726 mm/yr).

EXTREMES.--Current year: Maximum discharge, 392 ft³/s (11.1 m³/s) Dec. 18 (gage height, 5.60 ft or 1.707 m); no flow Aug. 14-30.
Period of record: Maximum discharge, 867 ft³/s (24.6 m³/s) Mar. 18, 1968 (gage height, 7.51 ft or 2.289 m); no flow Aug. 13-22, 1966, Oct. 2, 3, 1968, Sept. 5, 6, 1969, Aug. 14-30, 1974.

REMARKS.--Records good. Occasional regulation by ponds above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.9	40	29	47	36	27	38	12	11	2.7	.37	3.2
2	4.7	31	22	44	30	31	31	11	17	2.4	.37	1.4
3	5.7	24	18	36	25	30	25	11	14	1.9	.33	1.1
4	9.4	17	17	32	24	26	26	15	9.4	1.9	.30	5.1
5	11	14	15	30	22	24	32	16	6.7	2.1	.19	6.4
6	9.0	11	20	26	19	21	33	13	5.6	4.9	.16	4.9
7	7.3	10	24	25	18	18	31	11	4.9	5.9	.13	12
8	6.4	9.4	21	22	18	16	24	11	4.5	6.2	.16	18
9	5.9	9.0	25	18	18	15	47	9.8	4.0	6.2	.26	10
10	5.6	8.7	49	17	16	14	91	20	3.6	4.7	.62	5.9
11	5.1	7.6	50	21	15	14	65	42	3.2	3.2	.37	4.5
12	4.9	7.6	39	29	15	12	44	31	2.7	2.2	.01	3.6
13	4.9	7.6	31	30	16	11	37	38	2.4	1.7	.01	2.9
14	4.7	8.0	38	21	22	9.0	36	35	2.4	1.4	0	2.9
15	4.5	8.0	61	22	22	10	66	23	2.2	1.2	0	2.2
16	4.5	8.0	53	26	16	11	79	16	1.9	1.2	0	1.8
17	4.5	8.7	224	29	15	53	40	13	6.7	1.0	0	1.5
18	4.2	8.7	305	24	15	68	32	8.7	14	.83	0	1.4
19	4.2	8.3	107	34	14	44	27	7.6	8.0	.69	0	1.3
20	4.2	8.3	54	44	50	29	23	6.4	5.1	.69	0	1.4
21	4.7	7.6	62	47	71	50	21	5.9	4.7	.62	0	1.7
22	4.7	9.0	97	110	63	134	18	5.1	9.8	.62	0	2.9
23	4.9	11	65	114	100	85	17	5.4	9.0	.56	0	3.4
24	4.9	11	41	94	71	51	23	7.6	6.4	.56	0	3.2
25	4.9	16	33	71	45	36	22	11	5.1	.56	0	2.9
26	7.0	20	32	53	35	29	19	14	4.7	.56	0	2.4
27	2.9	20	84	54	29	24	16	14	4.0	.56	0	2.1
28	3.8	32	90	62	25	21	14	14	3.8	.44	0	1.9
29	4.2	47	61	71	------	18	13	13	3.4	.44	0	15
30	21	40	54	62	------	18	13	13	3.1	.44	0	29
31	39	------	51	46	------	31	------	11	------	.40	.69	------
TOTAL	217.6	468.5	1.872	1.361	865	980.0	1.003	464.5	183.3	58.77	3.97	156.0
MEAN	7.02	15.6	60.4	43.9	30.9	31.6	33.4	15.0	6.11	1.90	.13	5.20
MAX	39	47	305	114	100	134	91	42	17	6.2	.69	29
MIN	2.9	7.6	15	17	14	9.0	13	5.1	1.9	.40	0	1.1
CFSM	.66	1.47	5.70	4.14	2.92	2.98	3.15	1.42	.58	.18	.01	.49
IN.	.76	1.64	6.57	4.78	3.04	3.44	3.52	1.63	.64	.21	.01	.55

CAL YR 1973 TOTAL 9.221.90 MEAN 25.3 MAX 305 MIN 1.0 CFSM 2.39 IN 32.36
WTR YR 1974 TOTAL 7.633.64 MEAN 20.9 MAX 305 MIN 0 CFSM 1.97 IN 26.79

PEAK DISCHARGE (BASE, 170 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-18	0200	5.60	392				

01109200 WEST BRANCH PALMER RIVER NEAR REHOBOTH, MASS.

LOCATION.--Lat 41°52'46", long 71°15'18", Bristol County, on left bank 20 ft (6 m) downstream from culvert on Homestead Avenue and 2.6 mi (4.2 km) north of Rehoboth.

DRAINAGE AREA.--4.34 mi^2 (11.24 km^2), revised.

PERIOD OF RECORD.--October 1962 to September 1974 (discontinued). Prior to October 1970, published as Bliss Brook near Rehoboth.

GAGE.--Water-stage recorder. Altitude of gage is 100 ft (30 m) from topographic map.

AVERAGE DISCHARGE.--11 years (1963-74), 8.29 ft^3/s (0.235 m^3/s), 22.70 in/yr (577 mm/yr).

EXTREMES.--Current year: Maximum discharge, 268 ft^3/s (7.59 m^3/s) Dec. 17 or 18 (gage height, 5.08 ft or 1.548 m, from peak stage indicator); no flow Aug. 6-17, 23.

Period of record: Maximum discharge, 441 ft^3/s (12.5 m^3/s) Mar. 18, 1968 (gage height, 5.43 ft or 1.655 m); no flow at times in water years 1964-66, 1970, 1971, 1974.

REMARKS.--Records good. Recording rain gage at station since April 1963 (no winter records). Records of chemical analyses and water temperature for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.8	17	9.7	17	13	12	13	6.6	4.5	.29	.02	.34
2	2.4	14	8.0	16	11	13	11	6.0	6.0	.24	.01	.31
3	7.8	10	6.9	13	9.2	11	10	6.0	4.5	.22	.01	.53
4	9.5	8.5	6.6	12	9.2	10	11	7.5	3.6	.25	.01	1.2
5	6.6	7.3	6.4	11	8.7	9.7	12	6.6	2.9	.22	.01	.60
6	5.5	6.4	9.5	10	7.1	9.0	12	5.6	2.3	.64	0	.34
7	4.6	5.8	8.5	10	6.9	8.0	11	5.0	2.2	.42	0	4.9
8	4.0	5.1	7.3	8.7	7.1	7.3	9.5	4.8	2.0	2.0	0	3.9
9	3.6	4.9	10	8.3	7.1	6.6	21	4.6	1.9	.81	0	1.7
10	3.3	4.5	17	7.5	6.9	6.6	29	9.2	1.3	.49	0	1.1
11	3.2	4.2	14	9.0	6.4	6.0	21	13	1.1	.34	0	.75
12	2.9	4.0	12	10	6.2	5.5	16	10	.88	.27	0	.60
13	2.9	4.0	10	10	6.6	4.8	13	16	.64	.22	0	.49
14	2.7	4.0	18	9.0	8.7	4.6	14	12	.27	.16	0	.42
15	2.7	3.9	23	9.2	7.3	4.6	33	9.5	.25	.13	0	.36
16	2.3	4.0	20	10	6.0	4.5	24	7.8	.36	.12	0	.27
17	2.2	4.5	100	10	6.0	16	17	6.4	2.0	.11	0	.24
18	2.2	4.2	120	8.5	6.0	14	14	5.1	1.5	.10	.27	.22
19	2.2	4.0	45	13	5.5	11	12	4.5	.88	.10	.11	.19
20	2.2	3.7	25	15	25	9.0	11	4.0	.64	.08	.07	.19
21	2.4	3.4	33	15	24	21	10	3.6	.60	.08	.05	1.5
22	2.4	4.0	41	41	22	51	9.5	3.4	1.2	.08	.04	6.4
23	2.4	4.2	25	33	37	26	10	3.7	.81	.07	0	2.7
24	2.4	4.2	18	32	22	19	15	4.8	.75	.05	.01	1.4
25	2.3	7.1	14	24	16	14	14	4.8	.56	.05	.05	1.0
26	2.3	7.3	15	19	13	11	12	4.2	.56	.05	.04	.75
27	2.3	6.4	38	23	11	9.5	10	3.9	.53	.04	.03	.64
28	2.3	12	29	23	10	8.3	8.8	3.9	.45	.04	.04	.56
29	2.7	15	21	25	------	7.5	7.8	3.9	.38	.04	.25	32
30	15	12	19	19	------	7.8	7.0	4.3	.36	.04	.94	18
31	19	------	17	16	------	14	------	3.7	------	.03	1.4	------
TOTAL	131.1	199.6	746.9	487.2	324.9	362.3	418.6	194.4	45.92	7.78	3.36	83.60
MEAN	4.23	6.65	24.1	15.7	11.6	11.7	14.0	6.27	1.53	.25	.11	2.79
MAX	19	17	120	41	37	51	33	16	6.0	2.0	1.4	32
MIN	2.2	3.4	6.4	7.5	5.5	4.5	7.0	3.4	.25	.03	0	.19
CFSM	.97	1.53	5.55	3.62	2.67	2.70	3.23	1.44	.35	.06	.03	.64
IN.	1.12	1.71	6.40	4.18	2.78	3.11	3.59	1.67	.39	.07	.03	.72

CAL YR 1973 TOTAL 4,064.97 MEAN 11.1 MAX 120 MIN .64 CFSM 2.56 IN 34.84
WTR YR 1974 TOTAL 3,005.66 MEAN 8.23 MAX 120 MIN 0 CFSM 1.90 IN 25.76

PEAK DISCHARGE (BASE, 75 ft^3/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-17 or 18	-	*5.08	268				

* From peak-stage indicator.

01109500 KETTLE BROOK AT WORCESTER, MASS.

LOCATION.--Lat 42°13'55", long 71°50'07", Worcester County, on right bank 75 ft (23 m) downstream from Webster Street Bridge at Worcester, 1 mi (2 km) upstream from Beaver Brook.

DRAINAGE AREA.--31.3 mi^2 (81.1 km^2).

PERIOD OF RECORD.--August 1923 to current year. Prior to October 1950, published as Blackstone River at Worcester. Adjusted monthly discharge, in cubic feet per second per square mile, and runoff, in inches, published in water-supply papers for 1923-58, may be subject to error because of regulation upstream.

GAGE.--Water-stage recorder. Concrete control since Oct. 28, 1937. Datum of gage is 472.86 ft (144.128 m) above mean sea level, datum of 1929.

AVERAGE DISCHARGE.--51 years, 53.4 ft^3/s (1.512 m^3/s), 23.17 in/yr (589 mm/yr), adjusted for diversion.

EXTREMES.--Current year: Maximum daily discharge, 200 ft^3/s (5.66 m^3/s) Mar. 22; minimum, 5.9 ft^3/s (0.17 m^3/s) Aug. 6, 7.

Period of record: Maximum discharge, 3,970 ft^3/s (112 m^3/s) Aug. 19, 1955 (gage height, 12.78 ft or 3.895 m, from floodmark), from rating curve extended above 1,700 ft^3/s (48.1 m^3/s) on basis of computation of peak flow over dam; maximum daily, 2,720 ft^3/s (77.0 m^3/s) Aug. 19, 1955; minimum discharge, 0.2 ft^3/s (0.006 m^3/s) May 17, 1940.

REMARKS.--Records excellent except those for period of no gage-height record, which are fair. City of Worcester diverts flow for municipal use from about 7.0 mi^2 (18.1 km^2) of drainage area above station; see table below for figures of diversion. Since October 1959, city diverts flow through tunnel, usually during periods of high flow; this flow included in daily discharge. No flow through diversion tunnel during year. Flow regulated by reservoirs above station.

REVISIONS (WATER YEARS).--WSP 1301: 1927(M). See also PERIOD OF RECORD.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	77	35	115	114	65	90	57	40	18	7.9	15
2	20	57	31	113	98	58	86	49	49	16	6.1	13
3	21	38	29	103	92	54	80	43	41	34	15	24
4	20	30	29	95	89	56	82	51	33	28	9.9	99
5	22	26	37	86	78	57	84	43	26	31	8.1	52
6	20	24	94	80	71	53	74	37	22	56	6.6	36
7	19	23	78	74	71	49	64	38	19	36	7.4	56
8	18	21	53	70	67	45	60	34	18	27	9.2	50
9	17	19	71	64	65	42	74	32	17	23	9.3	36
10	17	18	145	64	60	41	80	48	16	19	8.4	34
11	17	17	108	67	59	40	76	62	13	17	7.8	34
12	17	16	72	64	56	36	94	49	10	15	7.6	31
13	16	16	59	60	57	31	105	115	11	14	7.7	35
14	16	17	91	55	60	30	116	117	10	13	7.1	71
15	14	17	118	53	54	30	138	79	9.1	12	6.9	43
16	13	17	88	53	48	35	137	57	42	11	7.2	33
17	12	17	118	50	49	120	114	49	106	10	8.2	30
18	13	16	151	45	47	110	91	43	88	11	15	29
19	15	15	116	64	48	90	90	36	61	12	10	28
20	15	14	88	66	112	70	93	32	43	9.5	8.0	28
21	14	15	161	69	124	130	81	30	36	8.3	7.4	41
22	13	18	174	108	122	200	72	29	33	7.6	7.4	68
23	13	18	147	122	155	170	70	30	27	7.9	11	45
24	14	21	133	129	142	140	72	34	24	7.5	13	34
25	13	36	115	114	121	110	64	42	23	8.7	9.7	30
26	13	36	111	97	96	90	58	38	23	9.6	8.0	29
27	13	31	148	133	80	78	51	43	23	9.2	7.7	27
28	12	46	147	158	70	70	46	40	22	8.5	13	28
29	16	52	139	152	------	62	53	36	23	8.2	42	154
30	116	42	131	144	------	60	43	33	20	7.9	26	143
31	103	------	122	134	------	90	------	31	------	8.2	21	------
TOTAL	682	810	3,139	2,801	2,305	2,312	2,438	1,457	928.1	504.1	339.6	1,376
MEAN	22.0	27.0	101	90.4	82.3	74.6	81.3	47.0	30.9	16.3	11.0	45.9
MAX	116	77	174	158	155	200	138	117	106	56	42	154
MIN	12	14	29	45	47	30	43	29	9.1	7.5	6.1	13
(†)	9.45	8.67	8.74	9.45	9.40	9.75	9.74	11.1	11.2	10.2	11.4	13.4

CAL YR 1973 TOTAL 22,874.0 MEAN 62.7 MAX 360 MIN 12 MEAN‡ 72.1 CFSM‡ 2.30 IN‡ 31.26
WTR YR 1974 TOTAL 19,091.8 MEAN 52.3 MAX 200 MIN 6.1 MEAN‡ 62.5 CFSM‡ 2.00 IN‡ 27.13

† Diversion, in cubic feet per second, for municipal supply of Worcester; records furnished by city of Worcester.

‡ Adjusted for diversion.

NOTE.--No gage-height record Mar. 17 to Apr. 10.

01110000 QUINSIGAMOND RIVER AT NORTH GRAFTON, MASS.

LOCATION.--Lat 42°13'49", long 71°42'41", Worcester County, on right bank 800 ft (250 m) downstream from dam at outlet of Hovey Pond at North Grafton and 0.3 mi (0.5 km) upstream from Bummett Brook.

DRAINAGE AREA.--25.5 mi² (66.0 km²).

PERIOD OF RECORD.--October 1939 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 335 ft (102 m) from topographic map. Prior to Dec. 7, 1939, staff gage at same site and datum.

AVERAGE DISCHARGE.--35 years, 41.4 ft³/s (1.172 m³/s), 22.05 in/yr (560 mm/yr).

EXTREMES.--Current year: Maximum discharge, about 220 ft³/s (6.23 m³/s) Mar. 22; minimum daily, 0.08 ft³/s (0.002 m³/s) Aug. 23.
Period of record: Maximum discharge, 820 ft³/s (23.2 m³/s) Aug. 20, 1955 (gage height, 5.15 ft or 1.570 m); no flow Aug. 6-9, 22, 1966, caused by unusual regulation.

REMARKS.--Records good except those for period of no gage-height record, which are poor. Some regulation by Lake Quinsigamond 2.3 mi (3.7 km) upstream and by ponds above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	46	21	88	89	70	120	50	43	19	1.6	8.7
2	9.4	44	18	84	81	61	90	65	48	18	2.9	7.5
3	9.8	40	16	76	79	58	60	61	39	22	3.7	9.8
4	9.8	33	16	73	73	57	100	64	35	23	3.5	34
5	10	26	18	68	71	56	96	52	32	29	3.7	32
6	10	24	35	64	65	53	90	47	28	46	3.1	30
7	8.7	21	34	60	64	50	76	46	26	41	2.6	38
8	7.1	18	31	58	61	49	70	45	26	35	2.5	36
9	6.5	18	40	56	62	51	95	41	26	31	2.0	29
10	6.2	16	60	56	66	59	130	46	24	26	1.8	24
11	5.9	14	57	58	60	48	120	61	20	23	1.8	21
12	5.7	12	52	56	55	44	110	60	18	19	1.5	18
13	5.5	12	46	52	52	41	100	75	17	16	1.0	18
14	6.5	11	60	49	50	39	110	68	15	15	.79	46
15	5.7	11	71	46	47	37	160	64	14	14	.61	40
16	4.8	11	64	45	44	36	120	60	23	13	.33	32
17	4.1	12	96	44	43	100	100	58	48	12	.23	26
18	3.5	11	124	41	41	110	85	59	49	10	.85	23
19	3.7	8.7	110	46	40	90	100	47	44	10	.79	19
20	3.7	8.1	98	48	68	80	100	42	41	8.5	.49	18
21	4.1	8.1	119	50	73	100	82	39	39	7.0	.33	25
22	3.7	9.4	152	64	80	210	72	36	39	6.2	.18	41
23	3.7	9.8	133	67	108	170	66	36	34	5.6	.08	33
24	3.7	9.4	117	71	93	130	64	43	29	5.2	2.3	27
25	3.9	15	102	70	84	110	62	54	26	4.5	2.6	23
26	4.1	16	96	66	79	92	59	47	24	3.8	1.9	20
27	4.4	16	113	84	70	82	60	45	23	3.1	1.3	18
28	3.9	20	114	101	67	76	56	41	22	2.5	1.8	17
29	4.8	25	107	110	------	72	51	35	22	2.1	6.5	89
30	32	22	104	104	------	70	47	35	21	1.8	8.1	111
31	45	------	92	95	------	110	------	32	------	1.6	9.8	------
TOTAL	249.9	547.5	2,316	2,050	1,865	2,411	2,651	1,554	895	473.9	70.68	914.0
MEAN	8.06	18.3	74.7	66.1	66.6	77.8	88.4	50.1	29.8	15.3	2.28	30.5
MAX	45	46	152	110	108	210	160	75	49	46	9.8	111
MIN	3.5	8.1	16	41	40	36	47	32	14	1.6	.08	7.5
CFSM	.32	.72	2.93	2.59	2.61	3.05	3.47	1.96	1.17	.60	.09	1.20
IN.	.36	.80	3.38	2.99	2.72	3.52	3.87	2.27	1.31	.69	.10	1.33

CAL YR 1973 TOTAL 17,715.90 MEAN 48.5 MAX 217 MIN 3.5 CFSM 1.90 IN 25.84
WTR YR 1974 TOTAL 15,997.98 MEAN 43.8 MAX 210 MIN .08 CFSM 1.72 IN 23.34

NOTE.--No gage-height record Mar. 10 to Apr. 24. Discharge in cubic feet per second per square mile and runoff in inches may not represent natural flow because of regulation.

01110500 BLACKSTONE RIVER AT NORTHBRIDGE, MASS.

LOCATION.--Lat 42°09'13", long 71°39'09", Worcester County, on left bank at Northbridge, 100 ft (30 m) downstream from Sutton Street Bridge and 3.0 mi (4.8 km) downstream from Quinsigamond River.

DRAINAGE AREA.--139 mi² (360 km²).

PERIOD OF RECORD.--October 1939 to current year. October and November 1939 monthly discharge only, published in WSP 1301.

GAGE.--Water-stage recorder. Altitude of gage is 260 ft (79 m) from topographic map.

AVERAGE DISCHARGE.--35 years, 245 ft³/s (6.938 m³/s), 23.94 in/yr (608 mm/yr), adjusted for diversion.

EXTREMES.--Current year: Maximum discharge, 2,210 ft³/s (62.6 m³/s) Mar. 21 (gage height, 7.36 ft or 2.243 m); minimum daily, 68 ft³/s (1.93 m³/s) Aug. 11, 12.

Period of record: Maximum discharge, 16,900 ft³/s (479 m³/s) Aug. 20, 1955 (gage height, 16.74 ft or 5.102 m), from rating curve extended above 3,800 ft³/s (108 m³/s) on basis of computation of flow over dam at gage height 13.7 ft (4.18 m) and slope-area measurement at gage height 16.74 ft (5.102 m); maximum gage height, 17.53 ft (5.343 m) Aug. 20, 1955 (backwater from debris); minimum daily discharge, 2 ft³/s (0.057 m³/s) Aug. 29, 1941, Sept. 5, 1942, Aug. 28, 1957.

Stage and discharge of flood of Aug. 20, 1955, are the greatest since at least 1900. Flood of Mar. 19, 1936, reached a stage of 13.7 ft (4.18 m) from floodmarks (discharge, 7,510 ft³/s or 213 m³/s, by computation of flow over dam 800 ft or 250 m above station).

REMARKS.--Records good. Flow regulated by mills and reservoirs above station. Daily discharge includes flow diverted from Nashua River basin and, at times during 1966 and 1967, from Quabbin Reservoir to Blackstone River basin for municipal supply of Worcester.

REVISIONS (WATER YEARS).--WSP 1301: 1940(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	127	317	170	555	554	395	530	377	258	135	77	95
2	133	253	146	539	496	375	479	321	277	147	73	91
3	138	192	133	494	453	348	448	276	232	225	107	130
4	133	158	134	454	438	355	470	311	204	182	74	440
5	138	143	150	423	414	359	475	262	188	234	82	255
6	132	136	360	391	375	342	441	243	174	415	87	182
7	120	131	258	365	373	326	360	243	166	254	82	327
8	119	124	205	341	354	315	341	228	156	199	82	264
9	123	122	276	317	334	298	429	211	150	181	81	194
10	122	115	581	292	319	292	524	282	151	171	78	169
11	123	108	403	303	316	287	513	323	155	155	68	148
12	123	108	293	306	306	279	524	272	149	143	68	147
13	120	114	241	294	311	261	517	580	141	131	77	146
14	158	112	413	285	317	245	546	479	130	119	79	419
15	127	110	526	279	288	236	746	355	130	120	80	222
16	115	97	408	275	262	241	637	290	226	126	78	182
17	102	93	653	270	259	731	533	276	566	122	78	172
18	93	86	970	258	261	599	458	248	370	115	110	166
19	96	91	626	302	260	465	499	227	288	118	75	151
20	94	98	495	369	686	383	459	212	255	113	83	148
21	86	101	863	324	594	770	421	209	218	96	84	216
22	84	112	1,590	530	656	1,430	390	203	219	93	83	397
23	88	99	961	567	1,030	881	407	216	182	101	102	219
24	94	101	727	588	709	727	402	225	174	98	157	186
25	94	151	600	503	577	614	356	278	166	100	79	173
26	93	160	535	438	511	538	333	247	168	92	72	189
27	91	140	751	819	443	464	308	267	162	85	77	187
28	84	190	755	959	412	390	286	247	157	75	87	184
29	95	204	675	885	------	353	278	234	152	78	169	1,170
30	470	188	626	706	------	346	275	222	140	97	143	897
31	408	------	577	620	------	554	------	205	------	81	130	------
TOTAL	4,123	4,154	16,101	14,051	12,308	14,199	13,385	8,569	6,104	4,401	2,802	7,866
MEAN	133	138	519	453	440	458	446	276	203	142	90.4	262
MAX	470	317	1,590	959	1,030	1,430	746	580	566	415	169	1,170
MIN	84	86	133	258	259	236	275	203	130	75	68	91
MEAN†	106	118	510	445	430	441	425	256	193	122	59.1	245
CFSM†	.76	.85	3.67	3.20	3.09	3.17	3.06	1.84	1.39	.88	.43	1.76
IN. †	.88	.95	4.23	3.69	3.22	3.66	3.42	2.13	1.55	1.01	.49	1.97

CAL YR 1973 TOTAL 121,179 MEAN 332 MAX 2,180 MIN 84 MEAN† 316 CFSM† 2.27 IN† 30.82
WTR YR 1974 TOTAL 108,063 MEAN 296 MAX 1,590 MIN 68 MEAN† 278 CFSM† 2.00 IN† 27.19

† Adjusted for diversion from Nashua River basin to Blackstone River basin for municipal supply of Worcester. Records of diversion furnished by city of Worcester.

NOTE.--Discharge in cubic feet per second per square mile and runoff in inches may not represent natural flow because of regulation.

01111200 WEST RIVER BELOW WEST HILL DAM, NEAR UXBRIDGE, MASS.

LOCATION.--Lat 42°06'17", long 71°36'28", Worcester County, on right bank 250 ft (76 m) downstream from West Hill Dam, 2.2 mi (3.5 km) northeast of Uxbridge, and 3.5 mi (5.6 km) upstream from mouth.

DRAINAGE AREA.--27.9 mi² (72.3 km²).

PERIOD OF RECORD.--March 1962 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 240 ft (73 m) from topographic map.

AVERAGE DISCHARGE.--12 years, 43.7 ft³/s (1.238 m³/s), 21.27 in/yr (540 mm/yr), adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 285 ft³/s (8.07 m³/s) Jan. 29 (gage height, 3.11 ft or 0.948 m); minimum, 3.0 ft³/s (0.085 m³/s) Aug. 22-28; minimum daily, 3.0 ft³/s (0.085 m³/s) Aug. 23-27.

Period of record: Maximum discharge, about 370 ft³/s (10.5 m³/s) Mar. 26, 1968 (gage height, about 3.45 ft or 1.05 m); no flow for part of Aug. 17, 1967 (caused by unusual regulation); minimum daily discharge, 1.1 ft³/s (0.031 m³/s) Sept. 12, 1963, Aug. 12, 1965.

REMARKS.--Records good. Flow regulated by West Hill Reservoir (usable capacity, 542,000,000 ft³ or 15,350,000 m³). See table below for figures of monthend contents.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.1	57	29	104	128	83	108	52	32	14	4.8	8.2
2	8.5	60	25	98	112	79	108	56	45	13	4.7	6.8
3	8.2	56	22	92	93	75	100	50	45	14	5.1	6.2
4	8.2	39	20	83	89	74	91	53	38	19	6.2	9.7
5	8.2	29	20	75	77	71	100	55	32	18	6.8	12
6	8.2	24	40	68	71	68	102	50	28	34	7.0	8.8
7	8.2	21	52	64	70	64	93	46	25	36	6.0	13
8	7.3	19	44	59	66	60	83	44	22	27	5.3	21
9	7.0	17	45	48	64	56	81	40	21	24	4.6	15
10	7.0	16	80	46	57	52	117	43	18	23	4.6	12
11	7.0	15	102	50	57	49	125	58	16	18	4.4	9.4
12	6.8	14	89	51	51	47	115	61	15	14	4.0	8.5
13	6.8	14	70	51	50	43	113	98	15	12	3.5	7.3
14	6.8	14	65	48	52	41	113	133	15	11	3.2	7.0
15	6.5	14	100	43	50	39	125	117	14	9.4	3.2	7.3
16	6.5	14	116	43	43	37	143	86	16	9.1	3.2	7.3
17	6.2	13	113	43	45	74	131	64	52	8.8	3.2	6.5
18	5.7	12	176	41	45	127	108	55	70	8.8	4.1	6.0
19	5.7	12	206	45	41	127	93	45	58	8.8	4.2	5.7
20	5.7	11	189	58	100	106	89	39	41	8.8	4.0	5.5
21	5.7	11	172	61	156	91	83	36	31	8.3	3.6	6.5
22	5.7	11	187	77	155	139	76	34	27	7.5	3.2	18
23	5.7	13	198	104	165	214	68	32	23	7.1	3.0	20
24	5.7	13	185	118	186	207	65	36	20	6.5	3.0	14
25	5.7	17	154	121	177	226	65	37	18	6.2	3.0	12
26	5.5	24	120	105	153	147	65	37	18	6.2	3.0	10
27	5.5	24	121	113	119	106	60	37	18	6.5	3.0	9.1
28	5.5	26	140	177	96	93	56	36	18	6.9	3.2	7.9
29	6.0	34	143	247	------	83	51	32	17	6.7	9.4	40
30	28	34	133	226	------	73	48	35	16	6.2	12	74
31	55	------	120	165	------	86	------	33	------	4.9	10	------
TOTAL	277.6	678	3.276	2.724	2,568	2,837	2,775	1,630	824	403.7	148.5	394.7
MEAN	8.95	22.6	106	87.9	91.7	91.5	92.5	52.6	27.5	13.0	4.79	13.2
MAX	55	60	206	247	186	226	143	133	70	36	12	74
MIN	5.5	11	20	41	41	37	48	32	14	4.9	3.0	5.5
(†)	3.4	2.6	8.0	8.0	5.8	5.5	3.0	2.6	1.5	1.1	1.3	4.4
MEAN‡	9.73	22.3	108	87.9	90.8	91.4	91.6	52.4	27.0	12.9	4.85	14.4
CFSM‡	.35	.80	3.87	3.15	3.25	3.28	3.28	1.88	.97	.46	.17	.52
IN.‡	.40	.89	4.45	3.63	3.39	3.78	3.66	2.17	1.08	.53	.20	.57

CAL YR 1973 TOTAL 20,229.9 MEAN 55.4 MAX 336 MIN 5.5 MEAN‡ 55.5 CFSM‡ 1.99 IN‡ 27.03
WTR YR 1974 TOTAL 18,536.5 MEAN 50.8 MAX 247 MIN 3.0 MEAN‡ 50.9 CFSM‡ 1.82 IN‡ 24.76

† Monthend contents, in millions of cubic feet, in West Hill Reservoir.
‡ Adjusted for change in contents in West Hill Reservoir.

01111300 NIPMUC RIVER NEAR HARRISVILLE, R.I.

LOCATION.--Lat 41°58'52", long 71°41'11", Providence County, on left bank 1.0 mi (1.6 km) upstream from mouth and 1.2 mi (1.9 km) northwest of Harrisville.

DRAINAGE AREA.--16.0 mi² (41.4 km²).

PERIOD OF RECORD.--March 1964 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 340 ft (104 m) from topographic map.

AVERAGE DISCHARGE.--10 years, 28.0 ft³/s (0.793 m³/s), 23.77 in/yr (604 mm/yr).

EXTREMES.--Current year: Maximum discharge, 501 ft³/s (14.2 m³/s) Mar. 21 (gage height, 6.27 ft or 1.911 m); minimum, 0.30 ft³/s (0.008 m³/s) Aug. 14, 15, 16, 17.

Period of record: Maximum discharge, 1,020 ft³/s (28.9 m³/s) Mar. 18, 1968 (gage height, 7.42 ft or 2.262 m), from rating curve extended above 530 ft³/s (15.0 m³/s); minimum, 0.09 ft³/s (0.003 m³/s) Sept. 10, 1964.

REMARKS.--Records good except those for winter period, which are fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.0	60	23	66	61	52	96	51	20	5.2	.70	1.7
2	3.6	46	19	64	53	55	67	41	25	4.8	.60	1.3
3	3.6	29	17	55	49	47	61	36	20	6.1	.52	1.3
4	4.0	22	17	52	47	45	67	50	16	8.2	.60	3.6
5	5.2	19	20	47	45	43	66	37	14	7.1	.82	2.9
6	8.8	17	87	42	42	39	56	32	12	19	.82	2.0
7	7.7	15	51	41	44	36	49	31	11	10	.60	11
8	6.6	14	34	37	40	34	43	28	10	6.6	.60	10
9	6.1	13	75	36	36	32	96	28	9.0	4.4	.52	5.2
10	5.7	12	138	38	34	31	122	41	8.0	3.6	.52	3.2
11	4.8	11	65	42	33	28	80	53	7.1	2.9	.52	2.2
12	4.8	11	46	40	32	27	68	40	7.1	2.2	.39	1.7
13	4.8	11	38	37	32	26	64	157	6.6	1.7	.39	1.3
14	4.8	11	108	35	31	25	73	82	6.1	1.5	.34	2.2
15	4.8	10	118	36	29	24	180	55	5.2	1.5	.34	2.0
16	4.8	11	67	36	27	25	110	43	8.8	1.5	.34	1.5
17	4.8	11	174	33	27	150	73	37	32	1.5	.34	1.3
18	4.8	11	223	30	26	87	60	34	21	1.7	.82	1.7
19	4.8	11	147	37	28	56	69	29	12	1.5	.82	2.2
20	4.8	9.3	85	44	237	46	65	26	9.3	1.7	.60	1.7
21	5.2	9.3	175	40	135	146	53	25	7.7	1.7	.52	5.2
22	5.7	11	208	90	101	303	47	24	7.7	1.5	.39	18
23	6.6	13	110	90	155	135	47	23	7.1	1.1	.34	8.2
24	6.6	12	82	104	87	96	55	28	7.1	1.1	.39	4.4
25	6.6	25	83	73	66	75	45	27	6.1	.96	.45	3.2
26	6.6	27	76	60	57	63	40	24	6.1	.96	.45	2.5
27	6.6	21	150	133	50	57	37	22	6.1	.96	.39	2.0
28	6.6	29	108	139	47	51	35	20	6.6	.96	.96	2.0
29	9.3	41	82	130	------	45	33	19	6.6	.96	7.7	108
30	107	29	86	90	------	48	31	20	6.1	.96	4.0	42
31	95	------	74	71	------	131	------	18	------	.96	3.2	------
TOTAL	365.1	572.1	2.786	1.868	1.651	2.060	1.988	1.179	327.4	104.82	29.99	255.5
MEAN	11.8	19.1	89.9	60.3	59.0	66.5	66.3	38.0	10.9	3.38	.97	8.52
MAX	107	60	223	139	237	303	180	157	32	19	7.7	108
MIN	3.6	9.3	17	30	26	24	31	18	5.2	.96	.34	1.3
CFSM	.74	1.19	5.62	3.77	3.69	4.16	4.14	2.38	.68	.21	.06	.53
IN.	.85	1.33	6.48	4.34	3.84	4.79	4.62	2.74	.76	.24	.07	.59

CAL YR 1973 TOTAL 12.880.10 MEAN 35.3 MAX 395 MIN 1.7 CFSM 2.21 IN 29.95
WTR YR 1974 TOTAL 13.186.91 MEAN 36.1 MAX 303 MIN .34 CFSM 2.26 IN 30.66

PEAK DISCHARGE (BASE, 270 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-17	2315	5.58	323				
12-21	2045	5.55	317				
2-20	1000	5.42	293				
3-21	2245	6.27	501				

01111410 CHEPACHET RIVER AT GAZZAVILLE, R.I.

LOCATION.--Lat 41°56'27", long 71°38'55", Providence County, on right bank at Gazzaville, 600 ft (200 m) upstream from bridge on Gazza Road, 1.2 mi (1.9 km) south of Oakland, and 1.3 mi (2.1 km) upstream from mouth.

DRAINAGE AREA.--19.2 mi² (49.7 km²).

PERIOD OF RECORD.--March 1973 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 335 ft (102 m) from topographic map.

EXTREMES.--Current year: Maximum discharge, 428 ft³/s (12.1 m³/s) Mar. 21 (gage height, 4.61 ft or 1.405 m), from rating curve extended above 140 ft³/s (3.96 m³/s); minimum, 4.4 ft³/s (0.12 m³/s) Aug. 27.
Period of record: Maximum discharge, 428 ft³/s (12.1 m³/s) Mar. 21, 1974 (gage height, 4.61 ft or 1.405 m), from rating curve extended above 140 ft³/s (3.96 m³/s); minimum, 4.4 ft³/s (0.12 m³/s) Aug. 27, 1974.

REMARKS.--Records excellent. Occasional regulation by ponds above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	70	21	76	76	59	93	46	31	12	8.1	12
2	12	56	19	73	65	57	79	41	38	11	8.1	12
3	14	42	18	65	60	54	73	36	29	12	9.6	13
4	16	36	18	62	56	54	74	41	25	13	8.4	18
5	15	34	19	58	55	53	72	34	22	13	8.4	15
6	14	32	35	53	51	50	67	28	20	15	8.4	12
7	13	31	30	52	48	47	61	21	18	12	8.1	32
8	12	30	26	49	48	45	56	20	17	11	7.8	30
9	12	28	44	50	47	43	100	19	16	10	7.5	33
10	11	26	81	52	46	43	117	27	15	8.1	7.5	27
11	11	25	57	52	44	38	95	38	14	9.0	7.5	23
12	11	23	47	51	42	37	84	36	12	9.0	6.4	20
13	10	21	43	48	42	37	78	116	11	9.0	5.6	17
14	10	19	80	45	44	34	84	97	11	8.7	6.1	24
15	15	18	101	43	42	33	232	80	11	9.3	6.1	19
16	26	18	72	43	39	33	173	65	13	9.6	6.4	15
17	37	19	137	43	38	110	129	56	23	9.6	6.6	13
18	37	18	202	43	38	98	102	48	17	9.3	10	12
19	35	18	136	57	39	64	85	40	14	9.0	8.1	12
20	33	18	104	61	177	56	75	35	12	8.7	6.9	11
21	32	17	147	59	125	318	69	33	12	8.7	6.6	22
22	32	18	204	101	99	212	63	32	14	8.4	6.1	40
23	29	18	145	98	139	159	60	33	12	8.1	6.1	27
24	28	18	110	100	114	122	60	36	12	8.1	6.4	21
25	25	24	83	84	95	95	56	36	12	8.1	6.6	19
26	25	24	78	75	81	77	52	33	12	8.1	6.4	18
27	23	21	112	104	70	69	50	32	12	8.1	5.6	16
28	23	24	105	126	62	61	48	30	12	8.1	8.7	15
29	28	31	92	125	------	59	45	27	12	8.1	24	150
30	86	24	88	108	------	76	44	24	12	8.1	16	120
31	90	------	84	90	------	112	------	21	------	8.1	16	------
TOTAL	777	801	2.538	2.146	1.882	2.405	2.476	1.261	491	298.3	260.1	818
MEAN	25.1	26.7	81.9	69.2	67.2	77.6	82.5	40.7	16.4	9.62	8.39	27.3
MAX	90	70	204	126	177	318	232	116	38	15	24	150
MIN	10	17	18	43	38	33	44	19	11	8.1	5.6	11
CFSM	1.31	1.39	4.27	3.60	3.50	4.04	4.30	2.12	.85	.50	.44	1.42
IN.	1.51	1.55	4.92	4.16	3.65	4.66	4.80	2.44	.95	.58	.50	1.58

WTR YR 1974 TOTAL 16.153.4 MEAN 44.3 MAX 318 MIN 5.6 CFSM 2.31 IN 31.30

PEAK DISCHARGE (BASE, 180 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-18	0130	3.86	256				
12-21	2145	3.79	242				
2-20	0930	3.58	204				
3-21	0930	4.61	428				
4-15	1000	4.00	285				

01111500 BRANCH RIVER AT FORESTDALE, R.I.

LOCATION.--Lat 41°59'47", long 71°33'47", Providence County, on left bank 20 ft (6 m) upstream from abandoned bridge site, 400 ft (100 m) downstream from milldam at Forestdale, 1 mi (2 km) east of Slatersville, and 1.6 mi (2.6 km) upstream from mouth.

DRAINAGE AREA.--91.2 mi^2 (236.2 km^2).

PERIOD OF RECORD.--September to December 1909 and January 1912 to July 1913 (gage heights only; published as "at Branch Village"), January 1940 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 180 ft (55 m) from topographic map. Prior to July 28, 1913, nonrecording gage at site 1 mi (2 km) downstream at different datum.

AVERAGE DISCHARGE.--34 years, 166 ft^3/s (4.701 m^3/s), 24.72 in/yr (628 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,790 ft^3/s (50.7 m^3/s) Mar. 22 (gage height, 7.21 ft or 2.198 m); minimum daily, 16 ft^3/s (0.45 m^3/s) Aug. 27.

Period of record: Maximum discharge, 4,980 ft^3/s (141 m^3/s) Mar. 18, 1968 (gage height, 11.90 ft or 3.627 m), from rating curve extended above 2,100 ft^3/s (59.5 m^3/s) on basis of computation of peak flow over dam 400 ft (100 m) above station; minimum daily, 5.2 ft^3/s (0.15 m^3/s) Oct. 7, 1948.

Maximum discharge since at least 1886, about 5,800 ft^3/s (164 m^3/s) Mar. 19, 1936, by computation of flow over dam 1 mi (2 km) above station.

REMARKS.--Records excellent. Prior to 1957, flow regulated by mills and reservoirs above station.

REVISIONS.--WRD Mass., N.H., R.I., Vt. 1968: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	54	322	129	428	342	301	536	204	148	46	24	63
2	52	265	111	413	303	269	408	206	192	44	23	46
3	56	193	98	339	296	237	362	166	160	50	37	51
4	61	170	92	313	303	237	360	227	134	60	35	89
5	63	154	100	285	279	237	367	207	114	55	32	83
6	57	141	228	269	261	225	345	179	98	76	28	59
7	54	127	265	261	274	203	313	166	89	74	31	113
8	49	122	193	247	262	190	262	155	85	61	30	142
9	41	116	235	234	230	180	390	142	78	52	26	110
10	37	103	539	239	209	179	624	170	70	44	25	106
11	36	88	399	259	207	170	509	250	65	34	22	94
12	35	81	286	253	199	160	433	219	59	28	22	86
13	36	66	228	237	197	153	400	564	54	27	20	79
14	35	56	364	221	197	148	435	550	53	31	18	115
15	31	54	612	224	187	147	922	400	48	38	18	102
16	32	57	427	225	172	149	808	322	69	29	17	84
17	44	65	678	222	179	531	570	239	142	29	18	71
18	57	61	1.140	174	173	541	471	203	134	30	26	66
19	58	57	686	234	176	356	435	174	91	30	20	63
20	56	57	495	284	851	278	416	153	76	34	20	61
21	54	58	663	261	784	474	307	141	66	28	20	101
22	53	64	1.050	475	554	1.530	267	134	63	25	19	175
23	53	71	710	530	699	906	261	129	58	25	21	132
24	50	69	539	541	552	677	286	149	54	28	22	95
25	49	106	439	459	434	538	259	152	50	25	19	80
26	46	134	437	379	374	415	234	143	51	26	17	74
27	46	119	590	470	327	339	221	133	53	26	16	76
28	44	134	570	631	305	309	208	126	56	28	23	77
29	54	189	493	586	-------	286	195	124	55	27	125	475
30	288	166	480	498	-------	276	180	138	51	27	111	627
31	437	-------	474	408	-------	499	-------	135	-------	26	92	-------
TOTAL	2.118	3.465	13.750	10.599	9.326	11.140	11.784	6.420	2.516	1.163	977	3.595
MEAN	68.3	116	444	342	333	359	393	207	83.9	37.5	31.5	120
MAX	437	322	1.140	631	851	1.530	922	564	192	76	125	627
MIN	31	54	92	174	172	147	180	124	48	25	16	46
CFSM	.75	1.27	4.87	3.75	3.65	3.94	4.31	2.27	.92	.41	.35	1.32
IN.	.86	1.41	5.61	4.32	3.80	4.54	4.81	2.62	1.03	.47	.40	1.47

CAL YR 1973 TOTAL 77.614 MEAN 213 MAX 1.810 MIN 24 CFSM 2.34 IN 31.66
WTR YR 1974 TOTAL 76.853 MEAN 211 MAX 1.530 MIN 16 CFSM 2.31 IN 31.35

PEAK DISCHARGE (BASE, 880 ft^3/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-18	0515	6.15	1,270	3-22	0730	7.21	1,790
12-22	0515	5.86	1,150	4-15	1545	5.78	1,120
2-20	1545	5.67	1,070				

01112500 BLACKSTONE RIVER AT WOONSOCKET, R.I.

LOCATION.--Lat 42°00'22", long 71°30'13", Providence County, on right bank at Woonsocket, 50 ft (15 m) upstream from Peters River pressure conduit. Records include flow of Peters River.

DRAINAGE AREA.--416 mi² (1,077 km²).

PERIOD OF RECORD.--February 1929 to current year.

GAGE.--Water-stage recorder. Datum of gage is 107.42 ft (32.742 m) above mean sea level.

AVERAGE DISCHARGE.--45 years, 729 ft³/s (20.65 m³/s), 23.80 in/yr (605 mm/yr), adjusted for storage and diversion.

EXTREMES.--Current year: Maximum discharge, 5,920 ft³/s (168 m³/s) Mar. 22 (gage height, 8.37 ft or 2.551 m); minimum daily, 124 ft³/s (3.51 m³/s) Aug. 16.

Period of record: Maximum discharge, 32,900 ft³/s (932 m³/s) Aug. 19, 1955 (gage height, 21.8 ft or 6.64 m, from floodmarks), from rating curve extended above 15,000 ft³/s (425 m³/s) on basis of slope-area measurement of peak flow, affected by failure of Horseshoe Dam on Mill River; minimum daily, 21 ft³/s (0.59 m³/s) Aug. 11, 1934, flow diverted around station in Hamlet Trench not included.

Maximum discharge since at least 1645, that of Aug. 19, 1955.

REMARKS.--Records excellent. Flow regulated by powerplants, by West Hill Reservoir since May 1961, and by other reservoirs above station. Extremes and figures of daily discharge include flow diverted from Nashua River basin and, at times since January 1966, from Quabbin Reservoir for supply of Worcester, Mass., and, prior to July 1964, flow diverted around station in Hamlet Trench. No diversion from Quabbin Reservoir during year. See table below for figures of diversion and table with station 01111200 for monthend contents of West Hill Reservoir.

REVISIONS (WATER YEARS).--WSP 756: Drainage area. WSP 781: 1931(M). WSP 871: 1938. WSP 1051: 1931.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	239	1,200	544	1,810	1,820	1,290	1,930	1,030	651	270	151	219
2	235	1,050	454	1,760	1,600	1,240	1,670	1,030	830	249	146	177
3	259	766	389	1,570	1,470	1,130	1,510	926	701	281	238	186
4	257	621	375	1,460	1,410	1,110	1,470	1,040	617	391	202	448
5	266	528	403	1,340	1,310	1,100	1,550	953	542	311	186	483
6	285	480	921	1,230	1,260	1,040	1,480	841	472	543	166	320
7	260	438	1,000	1,180	1,210	962	1,320	805	424	547	147	507
8	240	413	760	1,110	1,160	899	1,120	774	392	417	144	653
9	224	395	833	1,030	1,100	845	1,530	711	358	348	144	442
10	217	369	1,880	1,030	1,010	824	2,220	824	325	298	142	364
11	206	341	1,570	1,110	981	783	1,960	1,180	309	262	140	305
12	206	328	1,190	1,090	949	754	1,810	1,050	290	232	136	273
13	230	320	960	1,000	931	698	1,690	2,110	269	211	130	265
14	264	309	1,280	934	1,000	655	1,800	2,120	252	195	126	496
15	273	303	2,150	947	904	636	2,860	1,640	237	149	125	449
16	240	306	1,730	931	820	647	2,740	1,320	316	144	124	322
17	228	300	2,300	912	794	1,870	2,130	1,090	954	186	131	279
18	225	278	4,110	808	767	2,160	1,820	955	857	179	145	281
19	220	262	2,910	1,030	794	1,630	1,710	815	629	183	148	252
20	217	263	2,180	1,250	2,600	1,300	1,700	714	505	184	137	230
21	212	266	2,440	1,160	2,690	1,900	1,460	662	446	164	132	399
22	204	299	4,450	1,850	2,190	4,960	1,300	635	418	152	128	694
23	200	322	3,400	2,040	2,850	3,510	1,240	628	364	147	126	540
24	200	308	2,510	2,140	2,550	2,580	1,330	696	321	145	172	391
25	197	436	2,000	1,920	2,010	2,150	1,200	740	302	142	168	327
26	193	545	1,840	1,660	1,760	1,840	1,100	693	297	142	151	297
27	190	490	2,320	1,990	1,490	1,530	1,020	696	302	142	132	248
28	181	565	2,480	3,020	1,320	1,330	945	655	297	142	156	296
29	223	732	2,210	2,900	------	1,200	874	635	285	143	328	1,540
30	1,000	644	2,040	2,590	------	1,170	846	648	412	145	329	2,500
31	1,570	------	1,960	2,140	------	1,740	------	614	------	151	298	------
TOTAL	9,161	13,877	55,589	46,942	40,750	45,483	47,335	29,230	13,374	7,275	5,128	14,233
MEAN	296	463	1,793	1,514	1,455	1,467	1,578	943	446	235	165	474
MAX	1,570	1,200	4,450	3,020	2,850	4,960	2,860	2,120	954	547	329	2,500
MIN	181	262	375	808	767	636	846	614	237	142	124	177
(†)	27.0	20.7	9.52	8.34	9.86	16.6	20.7	20.1	10.8	20.3	31.3	17.0
MEAN‡	269	442	1,786	1,506	1,445	1,450	1,556	923	435	214	134	459
CFSM‡	.65	1.06	4.29	3.62	3.47	3.49	3.74	2.22	1.05	.51	.32	1.10
IN.‡	.75	1.18	4.95	4.17	3.62	4.02	4.17	2.56	1.17	.59	.37	1.23

CAL YR 1973 TOTAL 345,459 MEAN 946 MAX 5,880 MIN 177 MEAN‡ 930 CFSM‡ 2.24 IN‡ 30.36
WTR YR 1974 TOTAL 328,377 MEAN 900 MAX 4,960 MIN 124 MEAN‡ 882 CFSM‡ 2.12 IN‡ 28.79

PEAK DISCHARGE (BASE, 3,400 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-18	1230	7.23	4,630				
12-22	1130	7.66	5,110				
3-22	1100	8.37	5,920				

† Diversion, in cubic feet per second, from Nashua River basin for municipal supply of Worcester, Mass.; records furnished by city of Worcester.

‡ Adjusted for diversion and for change in contents in West Hill Reservoir.

01112700 BLACKSTONE RIVER TRIBUTARY AT WOONSOCKET, R.I.

LOCATION.--Lat 42°00'18", long 71°29'23", Providence County, on left bank at edge of parking lot in Cass Park just off Cass Avenue, at Woonsocket, and 0.5 mi (0.8 km) upstream from mouth.

DRAINAGE AREA.--2.31 mi² (5.98 km²).

PERIOD OF RECORD.--June 1965 to September 1974 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 150 ft (46 m) from topographic map. Prior to Dec 8, 1970, at site 0.25 mi (0.40 km) upstream at different datum.

AVERAGE DISCHARGE.--9 years, 3.48 ft³/s (0.099 m³/s), 20.46 in/yr (520 mm/yr).

EXTREMES.--Current year: Maximum discharge, 160 ft³/s (4.53 m³/s) Mar. 21 (gage height, 3.29 ft or 1.003 m), from rating curve extended above 81 ft³/s (2.29 m³/s); minimum, 0.10 ft³/s (0.003 m³/s) July 24-28, Aug. 10-17, Sept. 1, 2.

Period of record: Maximum discharge, 285 ft³/s (8.07 m³/s) Mar. 18, 1968 (gage height, 3.52 ft or 1.073 m, site and datum then in use), from rating curve extended above 52 ft³/s (1.47 m³/s) on basis of slope-area measurement at gage height 3.35 ft (1.021 m); no flow for many days during 1965, 1966, 1969, 1970.

REMARKS.--Records good October to March, fair thereafter. Recording rain gage at station since June 1966 (no winter record).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.30	4.0	1.5	7.2	5.6	4.7	7.0	4.8	4.2	.61	.11	.11
2	.30	2.5	1.2	6.4	5.2	4.0	6.4	3.6	3.2	.50	.78	.36
3	1.8	1.9	1.1	5.6	4.8	3.6	6.0	5.2	2.4	1.2	.55	.78
4	.61	1.5	1.1	5.6	4.5	3.8	6.8	5.0	2.1	.61	.24	.47
5	.55	1.3	3.6	5.0	4.2	3.2	6.0	3.8	1.8	1.8	.50	.16
6	.41	1.2	4.3	4.7	3.8	2.9	5.6	3.3	1.6	1.2	.13	.20
7	.36	1.0	2.5	4.5	3.8	2.8	5.4	3.3	1.4	.72	.13	4.4
8	.36	.94	1.8	4.2	3.6	2.6	5.4	3.3	1.3	.50	.13	1.2
9	.36	.83	11	3.6	3.6	2.5	14	3.2	1.2	.38	.19	.53
10	.36	.72	5.8	3.6	3.3	2.5	11	7.2	1.0	.33	.11	.33
11	.36	.66	3.6	3.8	3.3	2.5	8.4	6.0	.89	.30	.10	.25
12	.36	.61	2.6	3.6	3.0	2.4	7.2	7.2	.83	.24	.10	.21
13	.36	.61	2.2	3.5	3.6	2.0	8.2	9.2	.78	.24	.10	.60
14	.36	.61	21	3.3	3.5	2.0	7.5	5.0	.72	.22	.10	1.7
15	.36	.66	8.4	3.3	3.2	1.9	22	4.0	.66	.22	.10	.36
16	.36	1.2	6.0	3.3	2.8	5.0	11	3.5	3.6	.22	.10	.21
17	.36	.89	56	3.2	2.8	16	8.2	3.3	4.5	.19	.55	.18
18	.36	.78	27	2.9	2.6	6.2	7.2	2.9	2.1	.19	.19	.22
19	.36	.72	10	6.2	12	4.5	7.7	2.8	1.4	.55	.13	.17
20	.41	.55	8.0	4.3	18	3.6	6.6	1.9	1.1	.36	.13	.16
21	.41	.41	38	11	7.2	30	5.8	1.3	1.2	.19	.11	6.6
22	.41	.72	24	11	9.2	25	5.2	2.2	1.0	.16	.11	2.7
23	.41	.61	11	10	8.0	11	7.5	2.9	.83	.13	.33	1.1
24	.41	.55	8.4	9.7	5.4	8.4	6.0	3.2	.83	.10	.16	.57
25	.41	.61	7.0	7.5	4.7	7.0	5.0	3.0	.83	.10	.11	.42
26	.41	.72	9.7	6.2	4.5	6.4	4.5	3.0	.83	.10	.11	.37
27	.41	.72	12	11	3.8	5.6	4.5	2.6	.78	.10	.11	.35
28	.41	4.0	9.4	9.7	3.6	5.6	4.3	2.5	.72	.13	5.2	.35
29	7.2	2.8	7.7	9.4	------	5.0	4.2	2.6	.72	.13	.78	13
30	14	1.9	8.2	7.2	------	6.0	3.8	2.6	.61	.11	.83	2.4
31	6.0	------	7.0	6.6	------	8.7	------	2.2	------	.11	.19	------
TOTAL	39.54	36.22	321.1	187.1	143.6	197.4	218.4	116.6	45.13	11.94	12.51	40.46
MEAN	1.28	1.21	10.4	6.04	5.13	6.37	7.28	3.76	1.50	.39	.40	1.35
MAX	14	4.0	56	11	18	30	22	9.2	4.5	1.8	5.2	13
MIN	.30	.41	1.1	2.9	2.6	1.9	3.8	1.3	.61	.10	.10	.11
CFSM	.55	.52	4.50	2.61	2.22	2.76	3.15	1.63	.65	.17	.17	.58
IN.	.64	.58	5.17	3.01	2.31	3.18	3.52	1.88	.73	.19	.20	.65

CAL YR 1973 TOTAL 1,415.25 MEAN 3.88 MAX 56 MIN .19 CFSM 1.68 IN 22.79
WTR YR 1974 TOTAL 1,370.00 MEAN 3.75 MAX 56 MIN .10 CFSM 1.62 IN 22.06

PEAK DISCHARGE (BASE, 55 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10-29	2215	2.88	78	2-19	2300	3.21	140
12-9	1630	2.78	64	3-17	0200	2.83	71
12-14	1200	3.02	102	3-21	1615	3.29	160
12-17	1200	3.23	145	4-15	0100	2.85	74
12-21	1330	3.28	157	9-29	0230	3.07	111

01114000 MOSHASSUCK RIVER AT PROVIDENCE, R.I.

LOCATION.--Lat 41°50'02", long 71°24'42", Providence County, on left bank 800 ft (250 m) upstream from bridge on U.S. Highway 44, at Providence, and 0.5 mi (0.8 km) above mouth.

DRAINAGE AREA.--23.1 mi^2 (59.8 km^2).

PERIOD OF RECORD.--June 1963 to current year.

GAGE.--Water-stage recorder. Datum of gage is 8.19 ft (2.496 m) above mean sea level. Prior to Nov. 7, 1973, at datum 0.88 ft (0.268 m) lower. Mar. 10, 1972, to Nov. 7, 1973, stage record obtained at site 200 ft upstream.

AVERAGE DISCHARGE.--11 years, 39.1 ft^3/s (1.107 m^3/s), 22.99 in/yr (584 mm/yr).

EXTREMES.--Current year: Maximum discharge, 978 ft^3/s (27.7 m^3/s) Aug. 17 (gage height, 4.83 ft or 1.472 m); minimum, 2.0 ft^3/s (0.057 m^3/s) July 29; minimum daily, 6.5 ft^3/s (0.18 m^3/s) Aug. 26.

Period of record: Maximum discharge, 2,390 ft^3/s (67.7 m^3/s) Mar. 18, 1968 (gage height, 3.46 ft or 1.055 m, present datum), from rating curve extended above 460 ft^3/s (13.0 m^3/s); maximum gage height, 4.83 ft (1.472 m) Aug. 17, 1974; minimum discharge, 1.3 ft^3/s (0.037 m^3/s) Aug. 23, 1970; minimum daily, 1.7 ft^3/s (0.048 m^3/s) Aug. 10, 1970.

REMARKS.--Records good except those for period of no gage-height record, which are fair. Occasional regulation at low flow.

REVISIONS (WATER YEARS).--WRD Mass., N.H., R.I., Vt., 1970: 1969.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	60	26	73	56	54	68	40	43	12	8.4	11
2	13	40	23	64	53	51	59	35	33	13	8.4	19
3	30	34	22	60	50	47	57	39	27	18	13	28
4	22	31	22	60	49	50	67	42	24	13	9.8	40
5	18	28	33	55	44	45	59	36	23	33	12	17
6	16	25	50	51	40	41	56	33	22	15	10	15
7	15	23	35	50	44	39	50	36	21	10	10	140
8	14	22	28	46	42	36	47	34	19	9.5	10	70
9	14	21	90	42	40	33	178	32	18	8.5	9.9	40
10	13	20	74	44	37	33	124	76	19	9.3	9.2	25
11	13	20	47	55	37	28	79	53	18	8.8	7.2	13
12	13	19	40	51	35	29	65	55	18	8.3	6.9	11
13	12	19	36	44	41	29	69	103	18	7.5	7.6	12
14	12	19	173	40	42	28	67	56	16	7.5	7.8	17
15	12	19	102	41	36	27	174	45	14	13	8.0	11
16	12	22	73	43	32	46	80	40	60	13	8.2	9.9
17	11	20	491	41	35	210	63	35	83	11	52	10
18	11	19	269	34	35	74	57	33	36	8.8	48	9.4
19	11	19	122	73	55	54	55	30	23	9.0	9.8	9.4
20	11	18	96	56	253	48	53	29	19	8.6	8.2	9.8
21	11	18	201	91	91	274	47	27	44	7.2	7.9	47
22	11	24	183	131	121	230	44	27	23	10	7.5	58
23	11	22	105	102	121	100	52	37	16	9.2	8.8	21
24	11	30	85	95	69	78	52	37	16	7.5	11	13
25	11	33	73	73	60	65	47	34	24	7.8	9.5	12
26	11	28	92	65	59	64	41	29	16	8.7	6.5	11
27	12	40	159	111	55	59	39	27	15	8.1	7.7	10
28	13	70	97	93	49	56	37	27	15	8.1	24	9.0
29	70	55	75	97	------	51	34	27	15	8.1	45	198
30	130	34	83	73	------	59	36	27	15	9.0	84	38
31	80	------	68	63	------	88	------	26	------	9.1	23	------
TOTAL	658	852	3,073	2,017	1,681	2,126	1,956	1,207	753	329.6	499.3	934.5
MEAN	21.2	28.4	99.1	65.1	60.0	68.6	65.2	38.9	25.1	10.6	16.1	31.2
MAX	130	70	491	131	253	274	178	103	83	33	84	198
MIN	11	18	22	34	32	27	34	26	14	7.2	6.5	9.0
CFSM	.92	1.23	4.29	2.82	2.60	2.97	2.82	1.68	1.09	.46	.70	1.35
IN.	1.06	1.37	4.95	3.25	2.71	3.42	3.15	1.94	1.21	.53	.80	1.50

CAL YR 1973 TOTAL 18,312.0 MEAN 50.2 MAX 491 MIN 10 CFSM 2.17 IN 29.49
WTR YR 1974 TOTAL 16,086.4 MEAN 44.1 MAX 491 MIN 6.5 CFSM 1.91 IN 25.91

NOTE.--No gage-height record Oct. 1 to Nov. 29

PEAK DISCHARGE (BASE, 600 ft^3/s, revised)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-17	1130	4.72	916	8-17	2300	4.83	978
2-20	0100	4.38	740	9-7	-	-	unknown
3-21	1630	4.65	878	9-29	0400	4.77	944

01114500 WOONASQUATUCKET RIVER AT CENTERDALE, R.I.

LOCATION.--Lat 41°51'32", long 71°29'16", Providence County, on right bank 75 ft (23 m) downstream from bridge on U.S. Highway 44 at Centerdale and 6.5 mi (10.5 km) upstream from mouth.

DRAINAGE AREA.--38.3 mi² (99.2 km²).

PERIOD OF RECORD.--July 1941 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 95 ft (29 m) from topographic map.

AVERAGE DISCHARGE.--33 years, 70.7 ft³/s (2.002 m³/s), 25.07 in/yr (637 mm/yr).

EXTREMES.--Current year: Maximum discharge, 637 ft³/s (18.0 m³/s) Dec. 17 (gage height, 5.25 ft or 1.600 m); minimum daily, 19 ft³/s (0.54 m³/s) July 30 to Aug. 2, Aug. 5-16, 19-23, 26, 27.

Period of record: Maximum discharge, 1,440 ft³/s (40.8 m³/s) Mar. 18, 1968 (gage height, 7.75 ft or 2.362 m, from floodmarks); minimum daily, 2.1 ft³/s (0.059 m³/s) Aug. 26, 1963.

Maximum discharge during March 1936, 1,000 ft³/s (28.3 m³/s), by computation of flow over dam 0.7 mi (1.1 km) below station.

REMARKS.--Records good. Some regulation by reservoirs above station; regulation greater prior to 1956. Discharge figures prior to 1966 included leakage around station through bypass canal; leakage negligible subsequently.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	50	60	63	167	157	114	172	94	50	28	19	21
2	50	49	61	156	142	110	182	83	51	27	19	22
3	67	45	60	142	130	104	149	85	43	27	23	25
4	57	44	60	139	120	102	145	84	43	26	20	26
5	52	42	72	127	124	99	140	82	41	28	19	23
6	51	43	61	120	100	98	131	79	39	27	19	22
7	50	44	64	113	94	89	120	82	37	25	19	43
8	47	44	54	105	95	86	113	77	34	25	19	35
9	35	44	108	101	93	81	142	76	37	24	19	30
10	32	44	104	101	87	82	208	95	36	23	19	27
11	32	44	83	110	83	75	189	94	36	23	19	25
12	31	43	75	106	81	73	172	89	35	22	19	24
13	31	41	70	100	74	70	182	124	35	22	19	23
14	31	39	178	95	82	68	161	94	34	22	19	25
15	29	37	121	91	77	67	264	87	35	22	19	23
16	29	34	104	90	74	72	228	83	49	22	19	23
17	29	39	413	89	76	173	206	76	69	21	22	22
18	29	39	369	83	72	120	182	56	49	21	22	22
19	30	38	234	105	76	115	156	54	40	21	19	22
20	30	38	192	108	194	109	145	53	41	21	19	23
21	31	39	367	109	149	245	131	58	49	21	19	35
22	30	41	339	185	167	374	117	54	40	20	19	44
23	30	46	262	180	214	326	117	57	38	20	19	27
24	30	42	209	195	184	274	113	59	38	20	21	26
25	29	53	173	178	181	222	105	60	37	20	20	25
26	30	48	170	169	143	190	99	57	41	20	19	25
27	31	52	232	208	128	164	95	55	36	20	19	25
28	30	83	194	206	118	145	90	52	51	20	23	25
29	40	81	175	216	------	127	87	50	52	20	22	78
30	111	68	177	195	------	128	85	48	29	19	27	45
31	77	------	167	175	------	175	------	45	------	19	23	------
TOTAL	1,261	1,404	5,009	4,261	3,290	4,276	4,426	2,243	1,252	696	622	861
MEAN	40.7	46.8	162	137	118	138	148	72.4	41.7	22.5	20.1	28.7
MAX	111	83	413	216	214	374	264	124	69	28	27	78
MIN	29	37	60	83	72	67	85	45	29	19	19	21
CFSM	1.06	1.22	4.23	3.58	3.08	3.60	3.86	1.89	1.09	.59	.52	.75
IN.	1.22	1.36	4.87	4.14	3.20	4.15	4.30	2.18	1.22	.68	.60	.84

CAL YR 1973 TOTAL 32,660 MEAN 89.5 MAX 645 MIN 26 CFSM 2.34 IN 31.72
WTR YR 1974 TOTAL 29,601 MEAN 81.1 MAX 413 MIN 19 CFSM 2.12 IN 28.75

NOTE.--Discharge in cubic feet per second per square mile and runoff in inches may not represent natural flow because of regulation.

01115100 MOSQUITOHAWK BROOK NEAR NORTH SCITUATE, R.I.

LOCATION.--Lat 41°51'05", long 71°37'24", Providence County, on right bank 10 ft (3 m) downstream from culvert on Rocky Hill Road, 0.2 mi (0.3 km) upstream from mouth, and 2.2 mi (3.5 km) northwest of North Scituate.

DRAINAGE AREA.--3.06 mi² (7.93 km²).

PERIOD OF RECORD.--June 1965 to September 1974 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 350 ft (107 m) from topographic map.

AVERAGE DISCHARGE.--9 years, 6.14 ft³/s (0.174 m³/s), 27.25 in/yr (692 mm/yr).

EXTREMES.--Current year: Maximum discharge, 205 ft³/s (5.81 m³/s) Mar. 21 (gage height, 3.00 ft or 0.914 m), from rating table extended above 75 ft³/s (2.12 m³/s); no flow July 21 to Aug. 2, Aug. 9-17, 20-28.

Period of record: Maximum discharge, 630 ft³/s (17.8 m³/s) Mar. 18, 1968 (gage height, 3.40 ft or 1.036 m), from rating curve extended above 250 ft³/s (7.08 m³/s); no flow many days during most years.

REMARKS.--Records good. Recording rain gage at station since June 1966 (no winter records).

REVISIONS (WATER YEARS).--WRD Mass., N.H., R.I., Vt. 1968: 1967.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.73	12	5.6	13	11	7.8	20	5.2	3.9	.45	0	.16
2	.68	9.6	4.4	14	9.9	7.8	14	5.0	5.5	.33	0	.09
3	1.6	6.0	4.2	11	9.2	7.1	12	4.5	3.5	.37	.25	.23
4	2.1	4.6	4.2	9.9	8.8	6.7	12	7.8	2.5	.48	.10	1.8
5	1.6	3.8	4.7	9.9	7.4	6.7	12	5.7	1.9	.25	.07	.81
6	1.3	3.5	12	8.1	6.7	6.0	11	4.7	1.5	.45	.04	.27
7	1.2	3.4	9.9	7.4	6.2	5.5	9.5	4.2	1.2	.25	.01	4.7
8	1.0	3.1	6.5	7.4	6.2	5.0	8.1	3.9	1.1	.14	.02	3.2
9	.96	2.9	11	6.0	6.2	4.7	17	3.5	1.0	.09	0	1.0
10	.96	2.6	26	5.7	5.7	4.7	26	6.0	.75	.07	0	.56
11	.96	2.5	14	6.7	5.7	4.7	18	9.9	.60	.06	0	.37
12	.96	2.5	10	8.8	5.7	4.7	15	6.7	.56	.04	0	.27
13	.94	2.5	7.9	7.1	5.7	4.0	13	26	.48	.03	0	.20
14	.94	2.5	24	6.7	7.4	3.9	17	14	.37	.02	0	.50
15	.94	2.4	23	6.5	6.2	3.9	45	9.5	.27	.06	0	.30
16	.89	2.6	14	6.7	5.7	4.0	23	7.4	1.1	.06	0	.19
17	.89	3.2	56	7.1	5.5	31	16	6.0	5.7	.04	0	.15
18	.89	3.1	51	4.7	5.2	17	13	4.7	3.0	.02	.01	.18
19	.89	2.8	18	9.9	5.2	11	11	4.0	1.5	.01	.02	.15
20	.89	2.5	14	16	39	9.2	9.9	3.4	.88	.01	0	.20
21	.89	2.2	44	13	22	49	8.8	3.0	.75	0	0	7.0
22	.84	2.5	33	32	18	58	7.8	2.8	1.6	0	0	2.5
23	.84	2.8	20	23	30	23	7.4	3.2	1.1	0	0	.90
24	.84	2.6	16	24	15	17	7.4	4.2	.95	0	0	.55
25	.84	5.6	15	17	11	14	7.1	4.0	.68	0	0	.42
26	.84	5.8	13	14	9.9	11	6.0	3.5	.68	0	0	.36
27	.84	4.4	27	23	8.8	9.9	5.7	3.2	.81	0	0	.32
28	.89	6.5	19	22	7.8	8.8	5.5	3.0	.88	0	0	.30
29	1.5	11	15	20	-------	7.8	5.0	2.5	.68	0	.45	15
30	22	8.2	14	15	-------	8.5	4.5	2.7	.60	0	.27	3.5
31	21	-------	14	13	-------	27	-------	2.5	-------	0	.45	-------
TOTAL	72.64	129.7	550.4	388.6	291.1	389.4	387.7	176.7	46.04	3.23	1.69	46.18
MEAN	2.34	4.32	17.8	12.5	10.4	12.6	12.9	5.70	1.53	.10	.055	1.54
MAX	22	12	56	32	39	58	45	26	5.7	.48	.45	15
MIN	.68	2.2	4.2	4.7	5.2	3.9	4.5	2.5	.27	0	0	.09
CFSM	.76	1.41	5.82	4.09	3.40	4.12	4.22	1.86	.50	.03	.02	.50
IN.	.88	1.58	6.69	4.72	3.54	4.73	4.71	2.15	.56	.04	.02	.56

CAL YR 1973 TOTAL 2,678.12 MEAN 7.34 MAX 81 MIN .11 CFSM 2.40 IN 32.56
WTR YR 1974 TOTAL 2,483.38 MEAN 6.80 MAX 58 MIN 0 CFSM 2.22 IN 30.19

PEAK DISCHARGE (BASE, 60 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-17	1915	2.79	127	3-21	2115	3.00	205
12-21	1945	2.71	107	4-15	0945	2.59	81
2-20	0915	2.55	75				

01115630 NOOSENECK RIVER AT NOOSENECK, R.I.

LOCATION.--Lat 41°37'36", long 71°37'59", Kent County, on right bank at upstream side of bridge on State Highway 3 at Nooseneck and 5.5 mi (8.8 km) southwest of Washington.

DRAINAGE AREA.--8.23 mi² (21.32 km²).

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1961-63. November 1963 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 265 ft (81 m) from topographic map.

AVERAGE DISCHARGE.--10 years (1964-74), 18.1 ft³/s (0.513 m³/s), 29.87 in/yr (759 mm/yr).

EXTREMES.--Current year: Maximum discharge, 199 ft³/s (5.64 m³/s) Dec. 17 (gage height, 5.05 ft or 1.539 m); minimum, 1.9 ft³/s (0.054 m³/s) Aug. 25-27.
Period of record: Maximum discharge, 318 ft³/s (9.01 m³/s) Mar. 18, 1968 (gage height, 6.13 ft or 1.868 m); minimum, 0.81 ft³/s (0.023 m³/s) Sept. 8, 9, 1964.

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.1	21	16	38	33	34	46	19	14	7.6	3.7	3.9
2	7.1	19	14	35	30	33	39	18	14	7.0	3.5	4.4
3	14	16	13	33	29	31	37	18	13	7.9	3.7	5.8
4	12	15	12	33	28	30	50	21	11	7.6	3.7	7.9
5	10	13	13	30	26	29	46	19	11	8.2	3.5	5.8
6	9.9	12	21	27	26	26	46	18	9.7	12	3.2	5.1
7	9.5	11	16	27	25	25	38	18	8.9	8.2	3.5	16
8	9.1	11	14	26	24	25	34	16	8.6	7.0	4.2	9.7
9	8.6	10	24	26	23	23	56	16	8.6	6.0	3.7	7.3
10	8.2	9.9	33	26	22	23	61	22	8.2	5.8	3.4	6.6
11	8.2	9.5	22	28	22	22	47	23	7.6	5.3	3.1	5.8
12	8.2	9.5	19	26	21	21	42	21	7.3	5.1	2.9	5.5
13	8.2	9.5	17	25	21	19	41	35	7.0	4.8	2.7	5.1
14	8.2	9.5	47	23	23	19	42	24	6.6	4.4	2.6	4.9
15	8.2	9.1	39	22	21	19	43	21	6.3	5.1	2.6	4.4
16	8.2	9.5	27	22	19	19	38	18	7.6	11	2.4	4.4
17	7.9	9.9	112	22	19	74	33	16	20	24	2.4	4.2
18	7.9	9.1	79	19	19	43	31	15	14	8.9	3.2	3.9
19	7.9	8.6	48	38	20	34	30	14	11	7.6	2.7	3.5
20	7.9	8.2	42	35	79	31	29	13	9.2	7.6	2.4	3.5
21	7.9	8.2	69	33	50	67	28	12	16	6.3	2.3	3.7
22	7.9	9.9	71	68	51	89	26	12	27	5.8	2.1	7.3
23	7.9	9.9	49	49	80	53	26	12	15	5.3	2.4	5.3
24	7.9	9.5	42	46	48	48	26	14	13	5.1	2.7	4.9
25	7.9	14	38	39	42	42	25	16	12	4.9	2.1	4.6
26	7.9	14	40	35	38	39	23	14	11	4.6	1.9	4.6
27	8.2	13	44	45	35	37	22	14	11	4.6	2.0	4.4
28	8.2	27	49	42	33	35	22	14	9.7	4.6	2.1	4.2
29	11	29	42	50	------	33	21	13	9.7	4.4	2.6	31
30	44	19	42	41	------	34	19	14	8.9	4.4	4.2	12
31	29	------	39	36	------	57	------	12	------	3.9	5.3	------
TOTAL	324.1	383.8	1.173	1.045	907	1.114	1.067	532	336.9	214.8	92.8	199.7
MEAN	10.5	12.8	37.8	33.7	32.4	35.9	35.6	17.2	11.2	6.93	2.99	6.66
MAX	44	29	112	68	80	89	61	35	27	24	5.3	31
MIN	7.1	8.2	12	19	19	19	19	12	6.3	3.9	1.9	3.5
CFSM	1.28	1.56	4.59	4.09	3.94	4.36	4.33	2.09	1.36	.84	.36	.81
IN.	1.46	1.73	5.30	4.72	4.10	5.04	4.82	2.40	1.52	.97	.42	.90

CAL YR 1973 TOTAL 8.760.8 MEAN 24.0 MAX 138 MIN 4.8 CFSM 2.92 IN 39.60
WTR YR 1974 TOTAL 7.390.1 MEAN 20.2 MAX 112 MIN 1.9 CFSM 2.45 IN 33.40

PEAK DISCHARGE (BASE, 130 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-17	1630	5.05	199				
3-21	2130	4.83	177				

01115770 CARR RIVER NEAR NOOSENECK, R.I.

LOCATION.--Lat 41°38'35", long 71°36'30", Kent County, on left bank at upstream side of bridge on Burnt Sawmill Road, 1.5 mi (2.4 km) northeast of Nooseneck, and 4 mi (6 km) southwest of Washington.

DRAINAGE AREA.--6.73 mi^2 (17.43 km^2).

PERIOD OF RECORD.--1961-63 (occasional low-flow measurements), November 1963 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 250 ft (76 m) from topographic map. Prior to Nov. 27, 1963, reference point at site 75 ft (23 m) upstream at datum 9 ft (2.7 m) higher.

AVERAGE DISCHARGE.--10 years (1964-74), 11.5 ft^3/s (0.326 m^3/s), 23.20 in/yr (589 mm/yr), adjusted for diversion prior to May 1972.

EXTREMES.--Current year: Maximum discharge, 89 ft^3/s (2.52 m^3/s) Dec. 17 (gage height, 5.04 ft or 1.536 m); minimum, 1.2 ft^3/s (0.034 m^3/s) Aug. 31; minimum daily, 1.2 ft^3/s (0.034 m^3/s) Aug. 31.
Period of record: Maximum discharge, 221 ft^3/s (6.26 m^3/s) Mar. 18, 1968 (gage height, 6.50 ft or 1.981 m); minimum, 0.30 ft^3/s (0.008 m^3/s) Aug. 25, 26, 1968; minimum daily, 0.36 ft^3/s (0.010 m^3/s) Aug. 18, Sept. 12, 1965.

REMARKS.--Records good. Flow regulated by Carr Pond and other ponds above station. Prior to May 1972, diversion from Carr Pond for municipal supply of Coventry, Warwick, and West Warwick.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.1	17	11	26	22	19	28	11	10	6.7	3.2	1.3
2	4.7	14	11	25	20	19	23	11	10	5.9	2.9	4.7
3	7.3	11	10	22	19	18	20	11	10	5.1	2.7	3.9
4	7.9	10	10	22	18	17	25	11	9.9	6.7	2.6	4.7
5	7.0	10	10	20	17	16	27	11	9.0	4.7	2.6	4.7
6	5.9	8.9	12	18	15	15	26	11	8.9	5.5	2.9	3.1
7	5.4	8.5	11	17	15	15	22	11	8.2	5.9	2.9	5.9
8	5.0	8.3	11	16	15	14	20	11	8.5	5.1	2.9	9.4
9	4.8	8.1	14	15	15	14	28	10	5.5	5.1	2.8	8.2
10	4.7	7.7	21	14	14	13	37	11	2.9	4.7	2.5	5.5
11	4.7	7.5	16	17	14	13	30	13	4.3	4.4	2.2	3.6
12	4.7	7.5	14	19	14	13	24	13	4.7	4.4	2.1	2.9
13	4.6	7.5	12	17	13	12	22	18	4.7	3.6	1.9	2.4
14	4.6	7.5	22	15	14	12	23	16	4.7	3.4	1.9	2.3
15	4.6	7.5	26	14	13	12	23	14	5.3	3.1	1.8	2.1
16	4.6	7.7	20	14	13	12	22	12	8.2	4.1	1.7	1.9
17	4.5	7.6	54	15	12	37	19	11	12	12	1.5	1.7
18	4.5	7.5	70	14	12	33	18	11	12	10	1.5	1.7
19	4.5	7.5	47	19	12	24	17	10	10	7.0	1.5	1.7
20	4.5	7.5	38	24	38	19	17	9.9	8.9	5.5	1.6	1.6
21	4.5	7.5	45	23	35	31	16	9.7	9.4	4.4	1.7	1.6
22	4.5	8.0	51	39	33	56	17	9.6	15	4.1	1.9	2.4
23	4.5	8.2	44	35	49	39	16	9.4	12	4.1	1.9	2.6
24	4.5	8.3	34	32	32	32	15	9.5	10	4.1	1.7	2.1
25	4.5	9.8	26	26	24	26	14	10	8.5	3.9	1.7	1.9
26	4.5	10	30	23	22	23	13	10	7.8	3.9	1.6	1.6
27	4.5	9.6	43	28	20	20	13	10	7.8	3.9	1.6	1.5
28	4.5	13	37	31	19	19	12	10	7.8	3.9	1.5	1.5
29	6.3	16	30	34	------	18	12	10	7.4	3.9	1.5	12
30	19	13	30	29	------	19	12	10	7.0	3.7	1.4	12
31	22	------	28	25	------	30	------	10	------	3.6	1.2	------
TOTAL	186.9	282.2	838	688	559	660	611	345.1	250.4	156.4	63.4	112.5
MEAN	6.03	9.41	27.0	22.2	20.0	21.3	20.4	11.1	8.35	5.05	2.05	3.75
MAX	22	17	70	39	49	56	37	18	15	12	3.2	12
MIN	4.5	7.5	10	14	12	12	12	9.4	2.9	3.1	1.2	1.3
CFSM	.90	1.40	4.01	3.30	2.97	3.16	3.03	1.65	1.24	.75	.30	.56
IN.	1.03	1.56	4.63	3.80	3.09	3.65	3.38	1.91	1.38	.86	.35	.62

CAL YR 1973 TOTAL 5,804.4 MEAN 15.9 MAX 82 MIN 3.4 CFSM 2.36 IN 32.08
WTR YR 1974 TOTAL 4,752.9 MEAN 13.0 MAX 70 MIN 1.2 CFSM 1.93 IN 26.27

PEAK DISCHARGE (BASE, 65 ft^3/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-17	2145	5.04	89				
3-22	0315	4.59	65				

01116000 SOUTH BRANCH PAWTUXET RIVER AT WASHINGTON, R.I.

LOCATION.--Lat 41°41'24", long 71°33'59", Kent County, on right bank 150 ft (46 m) downstream from highway bridge at Washington and 0.9 mi (1.4 km) upstream from outlet of Tiogue Lake.

DRAINAGE AREA.--63.8 mi² (165.2 km²).

PERIOD OF RECORD.--October 1940 to current year.

GAGE.--Water-stage recorder. Datum of gage is 217.76 ft (66.373 m) above mean sea level.

AVERAGE DISCHARGE.--34 years, 129 ft³/s (3.653 m³/s), 27.46 in/yr (697 mm/yr), adjusted for diversion and storage.

EXTREMES.--Current year: Maximum discharge, 590 ft³/s (16.7 m³/s) Dec. 18 (gage height, 3.03 ft or 0.924 m); minimum daily, 6.1 ft³/s (0.17 m³/s) Aug. 17.

Period of record: Maximum discharge, 1,860 ft³/s (52.7 m³/s) Mar. 18, 1968 (gage height, 5.13 ft or 1.564 m); minimum daily, 2.8 ft³/s (0.079 m³/s) Aug. 27, 1944.

Flood in March 1936 reached a discharge of 1,810 ft³/s (51.3 m³/s), by computation of flow over dam just above gage.

REMARKS.--Records good except those below 30 ft³/s (0.85 m³/s), which are fair. Flow regulated by Flat River Reservoir 2 mi (3 km) upstream (usable capacity, 250,000,000 ft³ or 7,080,000 m³) and smaller reservoirs. Prior to May 1972, diversion above station from Carr Pond for municipal supply of Coventry, Warwick, and West Warwick.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	72	46	121	420	317	317	322	145	88	63	44	6.6
2	60	48	109	365	309	313	309	120	81	65	29	22
3	60	17	85	229	287	254	225	72	85	65	7.2	126
4	78	19	80	225	120	145	225	23	90	39	9.6	123
5	94	43	58	221	110	141	225	33	90	72	33	49
6	74	38	72	238	115	138	225	63	83	78	26	34
7	55	36	112	313	168	138	221	42	67	60	28	67
8	60	35	118	262	168	138	221	41	50	72	29	106
9	60	37	129	165	168	138	279	42	49	72	25	35
10	60	12	151	165	168	138	348	63	49	44	6.6	34
11	55	15	191	229	168	135	339	44	49	39	7.8	34
12	44	40	165	291	165	135	335	47	49	31	31	35
13	44	41	80	165	179	135	266	201	52	9.0	28	35
14	44	44	121	161	217	135	270	205	54	25	25	8.4
15	44	38	202	158	213	135	287	151	33	135	28	12
16	58	41	214	148	213	138	283	201	41	35	26	38
17	66	12	352	145	213	183	221	246	98	33	6.1	42
18	46	17	528	145	209	229	135	242	120	29	11	37
19	25	44	555	161	209	322	175	183	74	33	31	34
20	9.0	41	515	155	250	326	225	67	72	12	28	31
21	8.4	41	535	161	221	374	217	45	85	15	26	7.8
22	12	21	535	254	186	486	165	70	151	41	24	19
23	55	53	520	365	242	462	161	76	109	31	24	52
24	35	51	505	344	335	453	158	78	101	30	6.6	35
25	35	48	495	304	331	434	158	85	101	16	7.8	37
26	28	56	491	317	331	429	155	120	93	29	29	34
27	8.4	68	420	326	322	339	129	165	70	7.8	31	34
28	14	104	254	326	317	217	132	168	65	11	34	7.8
29	50	142	246	331	------	213	141	93	44	38	33	42
30	66	168	250	326	------	246	138	93	38	28	45	88
31	53	------	296	322	------	326	------	90	------	25	11	------
TOTAL	1,472.8	1,416	8,505	7,737	6,251	7,712	6,690	3,314	2,231	1,282.8	730.7	1,265.6
MEAN	47.5	47.2	274	250	223	249	223	107	74.4	41.4	23.6	42.2
MAX	94	168	555	420	335	486	348	246	151	135	45	126
MIN	8.4	12	58	145	110	135	129	23	33	7.8	6.1	6.6
MEAN†	68.2	77.5	280	246	226	242	226	122	75.7	38.8	18.9	41.0
CFSM†	1.07	1.21	4.39	3.86	3.54	3.79	3.54	1.91	1.19	.61	.30	.64
IN.†	1.23	1.36	5.06	4.45	3.69	4.38	3.96	2.20	1.32	.70	.34	.72

CAL YR 1973 TOTAL 60,814.3 MEAN 167 MAX 555 MIN 8.4 MEAN† 167 CFSM† 2.62 IN† 35.50
WTR YR 1974 TOTAL 48,607.9 MEAN 133 MAX 555 MIN 6.1 MEAN† 138 CFSM† 2.16 IN† 29.41

† Adjusted for change in contents in Flat River Reservoir. Records furnished by Quidnick Reservoir Co.

01116300 FURNACE HILL BROOK AT CRANSTON, R.I.

LOCATION.--Lat 41°45'23", long 71°29'52", Providence County, on left bank 30 ft (9 m) downstream from bridge on Phenix Avenue at Cranston and 1.0 mi (1.6 km) upstream from mouth.

DRAINAGE AREA.--4.19 mi² (10.85 km²).

PERIOD OF RECORD.--July 1965 to September 1974 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 145 ft (44 m) from topographic map.

AVERAGE DISCHARGE.--9 years, 8.76 ft³/s (0.248 m³/s), 28.39 in/yr (721 mm/yr).

EXTREMES.--Current year: Maximum discharge, 622 ft³/s (17.6 m³/s) Dec. 17 (gage height, 4.66 ft or 1.420 m), from rating curve extended above 130 ft³/s (3.68 m³/s); minimum not determined; minimum daily, 0.20 ft³/s (0.006 m³/s) Aug. 15, 16, 19.

Period of record: Maximum discharge, 622 ft³/s (17.6 m³/s) Dec. 17, 1973 (gage height, 4.66 ft or 1.420 m), from rating curve extended above 130 ft³/s (3.68 m³/s); maximum gage height, 4.67 ft (1.423 m) Mar. 18, 1968; no flow Aug. 18, 1965, and many days during summer of 1966.

REMARKS.--Records good except those for periods of doubtful or no gage-height record, which are poor. Recording rain gage at station since June 1966 (no winter records).

REVISIONS (WATER YEARS).--WRD Mass., N.H., R.I., Vt. 1968: 1967.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.8	16	8.1	16	9.8	9.4	19	2.8	3.5	.79	.40	2.8
2	1.8	10	6.4	14	7.7	9.4	13	2.4	3.0	.54	.35	1.2
3	7.7	6.0	5.0	11	7.0	7.7	11	3.0	2.6	.67	.32	2.2
4	6.7	4.8	4.8	9.8	6.7	11	14	5.3	2.1	1.4	.30	7.4
5	4.3	4.8	5.3	9.4	5.3	8.4	13	4.0	1.9	6.0	.24	6.7
6	2.8	4.5	24	8.4	4.8	5.7	12	3.3	1.7	12	.21	4.3
7	2.4	4.0	16	8.1	4.5	5.0	8.9	3.0	1.5	2.8	.32	27
8	1.8	3.5	11	7.0	4.5	4.8	7.4	2.8	1.4	1.5	.30	22
9	1.7	3.3	38	5.0	4.5	4.3	60	2.5	1.3	.98	.26	12
10	1.4	2.8	39	5.3	4.3	4.3	42	10	1.2	.79	.25	5.0
11	1.4	2.5	18	7.4	4.3	3.8	23	8.0	1.1	.73	.24	2.2
12	1.4	2.4	12	8.9	3.8	4.0	15	20	1.1	.54	.23	1.9
13	1.4	2.2	8.9	7.7	4.5	3.5	13	17	1.0	.48	.22	1.9
14	1.4	2.2	67	6.4	6.7	3.3	14	10	1.0	.43	.21	3.0
15	1.2	2.2	37	6.4	5.3	3.3	32	6.0	1.0	.54	.20	4.0
16	.85	2.2	20	7.0	3.8	4.5	16	4.5	5.0	.37	.20	3.8
17	.73	2.4	352	7.0	4.3	77	11	3.5	20	.45	.30	2.5
18	.85	2.2	84	5.7	3.8	23	8.9	3.0	15	.43	.35	1.7
19	.85	2.1	27	20	4.3	14	7.7	2.7	5.0	.45	.20	1.9
20	.85	1.9	19	18	111	10	6.7	2.4	1.0	.43	.24	1.2
21	.98	2.1	89	20	35	130	5.7	2.2	2.6	.40	.26	4.0
22	.79	3.8	54	85	53	70	5.3	2.0	10	.37	.32	7.7
23	.79	3.5	25	49	57	26	5.3	2.2	6.0	.34	.45	3.0
24	.79	3.3	16	37	21	18	5.7	2.7	5.0	.31	.48	1.5
25	.79	8.9	11	23	15	13	5.0	5.0	5.3	.28	.29	1.2
26	1.1	7.7	15	17	12	10	4.5	3.0	2.4	.24	.29	1.0
27	.98	6.0	57	32	8.9	8.9	4.0	3.0	2.4	.21	.32	.85
28	1.1	25	26	23	8.4	7.4	3.5	2.7	1.8	.24	.54	.73
29	2.5	29	18	30	------	6.4	3.0	2.7	2.1	.34	1.8	39
30	45	13	21	16	------	8.4	2.8	2.7	1.2	.26	16	16
31	35	------	16	12	------	37	------	2.5	------	.29	10	------
TOTAL	133.15	184.3	1,150.5	532.5	421.2	551.5	392.4	146.9	110.2	35.60	36.09	189.68
MEAN	4.30	6.14	37.1	17.2	15.0	17.8	13.1	4.74	3.67	1.15	1.16	6.32
MAX	45	29	352	85	111	130	60	20	20	12	16	39
MIN	.73	1.9	4.8	5.0	3.8	3.3	2.8	2.0	1.0	.21	.20	.73
CFSM	1.03	1.47	8.85	4.11	3.58	4.25	3.13	1.13	.88	.27	.28	1.51
IN.	1.18	1.64	10.21	4.73	3.74	4.90	3.48	1.30	.98	.32	.32	1.68

CAL YR 1973 TOTAL 4,270.38 MEAN 11.7 MAX 352 MIN .39 CFSM 2.79 IN 37.91
WTR YR 1974 TOTAL 3,884.02 MEAN 10.6 MAX 352 MIN .20 CFSM 2.53 IN 34.48

PEAK DISCHARGE (BASE, 135 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-14	1230	3.33	170	2-22	2030	3.33	170
12-17	1500	4.66	622	3-17	4445	3.23	145
12-21	1630	3.63	254	3-21	1730	4.22	450
2-20	0545	3.39	185				

NOTE.-Doubtful or no gage-height record May 9 to June 21, July 21 to Aug. 27, Sept. 11-13.

01116500 PAWTUXET RIVER AT CRANSTON, R.I.

LOCATION.--Lat 41°45'03", long 71°26'44", Providence County, on left bank at Cranston, 0.7 mi (1.1 km) upstream from Pocasset River.

DRAINAGE AREA.--200 mi² (518 km²).

PERIOD OF RECORD.--December 1939 to current year.

GAGE.--Water-stage recorder. Datum of gage is 8.00 ft (2.438 m) above mean sea level.

AVERAGE DISCHARGE.--34 years (1940-1974), 409 ft³/s (11.58 m³/s), 27.77 in/yr (705 mm/yr), adjusted for storage and diversion.

EXTREMES.--Current year: Maximum discharge, 2,320 ft³/s (65.7 m³/s) Dec. 17 (gage height, 9.82 ft or 2.993 m); minimum daily, 57 ft³/s (1.61 m³/s) Sept. 15, 16.

Period of record: Maximum discharge, 3,110 ft³/s (88.1 m³/s) Mar. 18, 1968 (gage height, 11.53 ft or 3.514 m); minimum daily, 22 ft³/s (0.62 m³/s) Sept. 4, 1944.

REMARKS.--Records good. Flow regulated by powerplants and by Scituate Reservoir 13 mi (21 km) upstream, Flat River Reservoir, and other reservoirs (combined usable capacity, about 6,000,000,000 ft³ or 170,000,000 m³). Diversion above station from Scituate Reservoir for municipal supply of Providence, North Providence, Cranston, Johnston, Smithfield, Warwick, West Warwick, and Coventry. See table below for figures of diversion and monthend contents in Scituate Reservoir and 5 smaller reservoirs, and see table with station 01116000 for monthend contents in Flat River Reservoir. Records of chemical analyses and water temperature for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 971: 1940-42. WSP 1381: 1940-41(M). WRD Mass., N.H., R.I., Vt., 1973: 1972 (adjusted monthly and yearly figures only).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	127	246	355	1.150	929	881	679	559	211	111	127	94
2	135	204	254	1.140	847	752	761	540	168	135	141	94
3	211	162	238	888	687	623	747	513	162	156	135	116
4	165	124	215	847	728	450	806	465	171	138	101	267
5	198	141	207	812	630	526	786	168	165	156	98	159
6	227	129	250	794	616	514	779	242	162	279	111	101
7	171	121	286	672	682	506	547	347	150	156	129	215
8	124	113	267	855	689	490	489	335	129	132	141	290
9	127	121	517	734	646	494	1.020	331	113	153	127	124
10	138	111	449	707	672	413	1.140	400	111	147	127	94
11	141	80	417	754	658	368	987	371	116	124	98	89
12	135	89	375	949	665	482	916	193	116	121	89	89
13	135	113	246	770	675	482	891	413	119	116	94	89
14	113	121	703	713	740	474	590	473	127	82	116	87
15	108	121	555	710	731	474	682	351	116	147	116	57
16	116	127	517	696	713	482	869	371	124	162	116	57
17	141	135	1.810	672	728	929	819	384	263	135	121	80
18	135	89	1.710	647	710	539	651	367	246	113	116	85
19	119	98	1.240	818	728	633	665	335	178	116	91	80
20	106	135	1.100	773	1.380	616	713	186	153	135	103	80
21	74	124	1.330	785	995	983	719	156	259	101	113	82
22	76	135	1.380	1.160	939	1.380	661	153	314	94	108	91
23	74	113	1.020	1.180	1.140	943	636	182	230	119	113	65
24	113	162	997	1.160	988	761	636	196	193	113	116	71
25	116	175	863	1.010	953	773	619	200	200	116	94	74
26	116	175	967	964	918	755	612	193	196	113	89	78
27	106	178	1.240	1.080	884	626	601	234	168	124	76	82
28	76	302	1.070	1.050	869	506	555	263	156	98	98	78
29	98	396	956	1.120	------	574	574	215	147	96	111	409
30	437	375	991	1.010	------	517	559	200	113	116	234	175
31	413	------	953	964	------	675	------	193	------	124	347	------
TOTAL	4.595	4.720	23.483	27.821	22.840	19.620	21.761	9.549	5.076	4.028	3.796	3.552
MEAN	148	157	758	897	816	633	725	308	169	130	122	118
MAX	437	396	1.810	1.180	1.380	1.380	1.140	559	314	279	347	409
MIN	74	80	207	647	616	368	489	153	111	82	76	57
(†)	99.4	93.5	86.2	90.2	90.2	89.2	96.5	102	114	122	130	102
(‡)	4.465	4.459	5.440	5.326	5.062	5.402	5.232	5.151	4.971	4.575	4.177	4.031
MEAN††	210	279	1.215	942	800	843	759	395	215	102	99.1	163
CFSM††	1.05	1.40	6.08	4.71	4.00	4.22	3.80	1.98	1.08	.51	.50	.82
IN.††	1.21	1.56	7.01	5.43	4.16	4.86	4.24	2.28	1.20	.59	.57	.91

CAL YR 1973 TOTAL 171.661 MEAN 470 MAX 1.870 MIN 76 MEAN†† 567 CFSM†† 2.84 IN†† 38.48
WTR YR 1974 TOTAL 150.831 MEAN 413 MAX 1.810 MIN 57 MEAN†† 501 CFSM†† 2.51 IN†† 34.01

† Diversion, in cubic feet per second, from Scituate Reservoir for municipal supply of Providence, North Providence, Cranston, Johnston, Smithfield, Warwick, West Warwick, and Coventry.

‡ Monthend contents, in millions of cubic feet, in Scituate Reservoir and 5 smaller reservoirs.

†† Adjusted for diversion and change in contents in Flat River Reservoir and in Scituate Reservoir and 5 smaller reservoirs. Records of diversion and monthend contents furnished by Providence Water Supply Board and Quidnick Reservoir Co.

01117000 POTOWOMUT RIVER NEAR EAST GREENWICH, R.I.

LOCATION.--Lat 41°38'28", long 71°26'45", Washington County, on right bank 45 ft (14 m) upstream from Old Forge Dam in North Kingstown, 1.5 mi (2.4 km) south of East Greenwich, and 2.5 mi (4.0 km) upstream from mouth.

DRAINAGE AREA.--23.0 mi² (59.6 km²).

PERIOD OF RECORD.--August 1940 to current year.

GAGE.--Water-stage recorder. Datum of gage is 5.42 ft (1.652 m) above mean sea level, datum of 1929.

AVERAGE DISCHARGE.--34 years, 43.4 ft³/s (1.229 m³/s).

EXTREMES.--Current year: Maximum discharge, 378 ft³/s (10.7 m³/s) Dec. 17 (gage height, 2.43 ft or 0.741 m, from peak-stage indicator); minimum, 1.9 ft³/s (0.054 m³/s) Aug. 14, 16, 17, 19, 20, 21, 22, 26.

Period of record: Maximum discharge, 866 ft³/s (24.5 m³/s) Mar. 18, 1968 (gage height, 3.36 ft or 1.024 m), from rating curve extended above 440 ft³/s (12.5 m³/s); maximum gage height, 6.78 ft (2.067 m) Aug. 31, 1954 (backwater from hurricane tidal wave); no flow Oct. 25, 1947, Aug. 28-30, 1960, and part of Oct. 1 and 2, 1971 (due to closing of gate at Old Forge Dam).

Maximum stage since at least 1915, about 8.5 ft (2.6 m) Sept. 21, 1938 (backwater from hurricane tidal wave), from information by resident of area since 1915.

REMARKS.--Records good except those for period of no gage-height record and those below 10 ft³/s (0.28 m³/s), which are fair. Diversions above station for supply of East Greenwich, North Kingstown, Warwick, and U. S. Naval establishments; see table below for figures of diversion.

REVISIONS (WATER YEARS).--WSP 1621: 1957-58.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.7	46	37	92	82	74	104	51	42	19	7.5	9.3
2	7.8	31	34	84	76	73	85	47	48	17	6.2	22
3	21	22	31	80	71	68	78	53	38	17	7.9	22
4	19	17	29	80	70	66	93	69	32	18	7.5	33
5	15	16	31	72	65	65	98	57	29	18	6.4	20
6	12	15	50	66	59	60	94	50	26	30	6.3	12
7	10	15	40	62	64	58	80	50	24	21	6.6	62
8	10	14	34	60	63	56	73	47	24	16	9.2	50
9	8.9	14	55	58	62	54	130	44	22	14	6.9	25
10	8.9	13	80	57	57	53	170	70	19	12	6.3	16
11	8.9	13	52	66	56	51	124	79	18	11	5.5	11
12	7.8	12	44	69	55	49	103	64	17	10	5.3	10
13	10	12	41	61	57	48	98	84	17	11	3.7	9.1
14	10	12	110	55	66	47	105	69	17	10	3.4	9.4
15	8.8	12	90	57	59	46	103	55	16	10	3.3	8.8
16	7.8	13	65	59	52	47	93	47	20	17	3.8	7.8
17	8.9	12	270	58	55	177	83	42	69	54	3.9	7.7
18	8.9	12	190	49	52	136	78	39	52	26	4.2	8.8
19	8.9	11	130	89	52	90	75	36	32	17	3.6	7.9
20	11	11	110	100	128	74	73	34	24	15	3.2	9.2
21	10	11	180	86	116	121	70	33	40	13	3.5	8.9
22	8.9	12	190	165	105	228	68	33	89	11	3.5	17
23	8.9	14	130	137	179	144	68	33	53	9.9	4.5	12
24	8.9	14	100	125	122	111	64	40	41	9.5	6.1	9.9
25	8.9	20	90	107	93	94	60	51	31	9.2	4.9	9.3
26	10	20	100	92	82	84	57	44	29	9.8	4.2	9.5
27	9.4	19	160	113	74	80	56	45	26	9.9	4.9	10
28	6.6	50	120	118	70	75	54	45	24	9.6	5.6	12
29	11	60	100	125	------	71	52	41	23	10	9.5	66
30	56	45	100	107	------	74	52	40	22	9.5	15	46
31	74	------	94	92	------	110	------	36	------	8.2	14	------
TOTAL	423.9	588	2,887	2,641	2,142	2,584	2,541	1,528	964	472.6	186.4	561.6
MEAN	13.7	19.6	93.1	85.2	76.5	83.4	84.7	49.3	32.1	15.2	6.01	18.7
MAX	74	60	270	165	179	228	170	84	89	54	15	66
MIN	6.6	11	29	49	52	46	52	33	16	8.2	3.2	7.7
(†)	4.97	4.28	4.23	4.38	4.13	3.88	4.07	3.87	4.88	6.89	2.62	3.85

CAL YR 1973 TOTAL 21,510.7 MEAN 58.9 MAX 359 MIN 6.6 (†) 6.32
WTR YR 1974 TOTAL 17,519.5 MEAN 48.0 MAX 270 MIN 3.2 (†) 4.34

PEAK DISCHARGE (BASE, 230 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-17	-	*2.43	378				
3-22	0100	2.20	287				

* From peak-stage indicator.

† Diversions, in cubic feet per second, for supply of East Greenwich, North Kingstown, Warwick, and U. S. Naval establishments; records furnished by U. S. Navy and Kent County Water Authority.

NOTE.--No gage-height record Nov. 6 to Jan. 9.

01117350 CHIPUXET RIVER AT WEST KINGSTON, R.I.

LOCATION.--Lat 41°28'56", long 71°33'06", Washington County, on right bank at West Kingston, at downstream side of bridge on State Highway 138, 1.5 mi (2.4 km) west of Kingston, and 3.1 mi (5.0 km) upstream from Worden Pond.

DRAINAGE AREA.--9.99 mi² (25.87 km²).

PERIOD OF RECORD.--February 1958 to July 1960 in Rhode Island Water Resources Board Geologic Bulletin 13. September 1973 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 95 ft (29 m) from topographic map.

EXTREMES.--September 14-30, 1973: Maximum discharge, 14 ft³/s (0.40 m³/s) Sept. 25 (gage height, 5.08 ft or 1.548 m); minimum, 6.8 ft³/s (0.19 m³/s) Sept. 14.

Water year 1974: Maximum discharge, 71 ft³/s (2.01 m³/s) Dec. 18 (gage height, 6.35 ft or 1.935 m); minimum, 4.2 ft³/s (0.12 m³/s) Aug. 21, 22.

Period of record: Maximum daily discharge, 71 ft³/s (2.01 m³/s) Feb. 27, 1960; minimum discharge, 4.2 ft³/s (0.12 m³/s) Aug. 21, 22, 1974.

Instantaneous maximum and minimum discharges not available prior to Sept. 14, 1973.

REMARKS.--Records good. Diversion above station for supply of University of Rhode Island. Records of chemical analyses and water temperatures for the current year are published in Part 2 of this report.

DISCHARGE IN CUBIC FEET PER SECOND, SEPTEMBER 14-30, 1973

DAY	SEP	DAY	SEP
14	6.9	23	11
15	9.4	24	13
16	10	25	14
17	9.8	26	13
18	10	27	12
19	10	28	11
20	10	29	11
21	10	30	10
22	9.4	31	------

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.4	17	18	37	38	28	32	23	19	11	5.4	6.1
2	8.7	17	17	35	35	27	33	23	19	11	5.3	6.9
3	9.5	15	15	32	32	26	31	22	19	10	5.1	7.8
4	9.9	13	13	31	30	24	30	23	19	11	5.3	11
5	9.6	11	13	31	28	24	30	23	17	11	5.1	12
6	9.1	9.3	13	29	27	23	32	22	16	12	5.0	11
7	8.4	8.8	13	27	26	22	31	21	15	12	5.1	12
8	8.0	8.1	13	26	26	22	29	21	14	11	5.9	12
9	7.5	7.7	14	25	26	21	31	21	12	9.8	5.9	12
10	6.8	7.3	16	25	25	21	39	22	12	9.6	5.7	10
11	6.9	7.2	18	25	24	20	42	25	11	9.4	5.3	9.2
12	6.8	7.1	18	26	23	20	40	27	11	8.6	5.1	8.3
13	6.5	7.1	17	27	22	19	38	28	10	8.1	5.0	7.6
14	6.4	6.9	17	27	23	18	36	29	9.6	7.9	4.8	7.2
15	6.1	6.9	19	26	23	18	36	28	9.2	7.9	4.8	6.8
16	5.9	6.9	21	25	23	18	36	26	9.8	7.9	4.7	6.2
17	5.4	6.9	32	24	23	25	34	25	13	8.6	4.5	5.8
18	5.2	6.8	64	23	23	36	32	23	15	8.8	4.5	5.7
19	5.1	6.6	66	23	22	38	30	21	16	8.8	4.7	5.7
20	5.0	6.5	54	26	25	34	29	19	15	8.6	4.5	5.6
21	5.0	6.3	47	29	31	33	27	18	15	8.4	4.4	5.9
22	4.9	6.4	46	39	34	47	26	17	17	7.7	4.2	7.3
23	4.9	6.6	45	50	42	53	25	16	18	7.5	4.5	7.9
24	5.8	6.9	42	50	47	47	25	16	19	7.1	4.7	7.5
25	5.9	7.5	36	46	43	40	25	18	18	6.8	4.7	7.1
26	5.9	8.1	33	42	37	35	24	18	16	6.4	4.8	6.6
27	5.9	8.1	37	41	33	31	24	18	14	6.3	4.7	6.1
28	5.7	11	43	42	29	28	24	19	13	6.3	4.5	6.4
29	5.9	15	44	45	------	26	23	19	12	5.9	4.7	9.2
30	9.4	18	41	45	------	26	23	19	11	5.7	5.6	11
31	14	------	38	42	------	29	------	19	------	5.6	6.1	------
TOTAL	219.5	277.0	923	1,021	820	879	917	669	434.6	266.7	154.6	243.9
MEAN	7.08	9.23	29.8	32.9	29.3	28.4	30.6	21.6	14.5	8.60	4.99	8.13
MAX	14	18	66	50	47	53	42	29	19	12	6.1	12
MIN	4.9	6.3	13	23	22	18	23	16	9.2	5.6	4.2	5.6

WTR YR 1974 TOTAL 6,825.3 MEAN 18.7 MAX 66 MIN 4.2

01117500 PAWCATUCK RIVER AT WOOD RIVER JUNCTION, R.I.

LOCATION.--Lat 41°26'42", long 71°40'53", Washington County, on right bank at downstream side of bridge on Alton-Carolina road, 0.8 mi (1.3 km) northeast of Wood River Junction, 1.5 mi (2.4 km) southwest of Carolina, and 2.9 mi (4.7 km) upstream from Wood River.

DRAINAGE AREA.--100 mi² (259 km²).

PERIOD OF RECORD.--October 1940 to current year. October and November 1940 monthly discharge only, published in WSP 1301. Prior to October 1943, published as Charles River at Wood River Junction.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 43.86 ft or 13.369 m above mean sea level.

AVERAGE DISCHARGE.--34 years, 191 ft³/s (5.409 m³/s), 25.94 in/yr (659 mm/yr).

EXTREMES.--Current year: Maximum discharge, 627 ft³/s (17.8 m³/s) Dec. 19 (gage height, 4.80 ft or 1.463 m); minimum, 40 ft³/s (1.13 m³/s) Aug. 27, 28; minimum daily, 41 ft³/s (1.16 m³/s) Aug. 23, 24, 27, 28.

Period of record: Maximum discharge, 1,700 ft³/s (48.1 m³/s) Mar. 19, 1968 (gage height, 7.80 ft or 2.377 m); minimum, 7.4 ft³/s (0.21 m³/s) Oct. 10, 1947; minimum daily, 15 ft³/s (0.42 m³/s) Oct. 11, 1947.

REMARKS.--Records good. Occasional regulation at low flow by powerplant and mills above station; regulation greater prior to 1969.

REVISIONS (WATER YEARS).--WSP 1051: Drainage area. WSP 1201: 1948.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	89	179	170	418	410	295	358	212	186	122	66	65
2	87	166	147	398	376	288	360	206	199	116	64	70
3	101	143	134	375	345	280	345	204	197	115	63	76
4	109	123	128	352	323	272	345	215	182	117	61	97
5	107	113	126	345	293	263	352	217	168	113	61	97
6	100	106	142	327	284	254	358	208	164	119	60	86
7	93	103	151	313	278	245	351	199	155	120	59	111
8	89	101	149	299	274	236	330	193	148	109	60	128
9	87	99	155	274	267	228	352	189	142	102	59	126
10	86	95	186	263	260	226	416	204	137	94	59	107
11	85	93	206	276	254	219	448	226	131	90	57	86
12	83	92	197	299	249	215	440	232	126	86	55	76
13	83	92	175	297	245	206	416	243	121	84	52	71
14	81	93	186	282	252	202	398	243	116	82	49	66
15	81	91	219	267	249	195	389	234	111	80	47	62
16	79	91	241	265	236	195	371	217	111	81	46	59
17	79	91	343	260	230	282	349	206	147	89	46	57
18	78	90	548	239	228	341	327	193	170	104	47	56
19	77	90	620	265	226	364	309	184	168	100	48	55
20	77	89	588	288	258	341	297	177	148	91	51	55
21	76	88	566	305	301	338	284	170	145	84	46	56
22	76	92	568	392	327	432	269	168	181	80	42	92
23	76	95	548	440	382	490	265	168	192	78	41	82
24	76	95	510	469	396	503	260	175	184	74	41	71
25	74	107	450	455	392	457	252	189	162	71	42	64
26	74	116	416	429	367	407	243	189	147	70	42	61
27	74	116	461	431	332	367	234	184	139	70	41	58
28	73	146	490	448	307	336	226	186	134	70	41	57
29	76	182	488	476	------	313	221	186	131	69	43	120
30	134	189	465	473	------	307	217	186	127	69	48	145
31	168	------	436	448	------	343	------	182	------	68	65	------
TOTAL	2,728	3,366	10,209	10,868	8,341	9,440	9,782	6,183	4,569	2,817	1,602	2,412
MEAN	88.0	112	329	351	298	305	326	199	152	90.9	51.7	80.4
MAX	168	189	620	476	410	503	448	243	199	122	66	145
MIN	73	88	126	239	226	195	217	168	111	68	41	55
CFSM	.88	1.12	3.29	3.51	2.98	3.05	3.26	1.99	1.52	.91	.52	.80
IN.	1.01	1.25	3.80	4.04	3.10	3.51	3.64	2.30	1.70	1.05	.60	.90

CAL YR 1973 TOTAL 89,414 MEAN 245 MAX 700 MIN 73 CFSM 2.45 IN 33.26
WTR YR 1974 TOTAL 72,317 MEAN 198 MAX 620 MIN 41 CFSM 1.98 IN 26.90

01117600 MEADOW BROOK NEAR CAROLINA, R.I.

LOCATION.--Lat 41°27'59", long 71°41'26", Washington County, on right bank 50 ft (15 m) upstream from culvert on Pine Hill Road and 1.5 mi (2.4 km) northwest of Carolina.

DRAINAGE AREA.--5.53 mi² (14.32 km²).

PERIOD OF RECORD.--June 1965 to September 1974 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 75 ft (23 m) from topographic map.

AVERAGE DICHARGE.--9 years, 9.86 ft³/s (0.279 m³/s), 24.21 in/yr (615 mm/yr).

EXTREMES.--Current year: Maximum discharge, 61 ft³/s (1.73 m³/s) Dec. 18 (gage height, 4.40 ft or 1.341 m); minimum, 0.20 ft³/s (0.006 m³/s) Aug. 21.
Period of record: Maximum discharge, 164 ft³/s (4.64 m³/s) Mar. 18, 1968 (gage height, 6.07 ft or 1.850 m), from rating curve extended above 84 ft³/s (2.38 m³/s); minimum, 0.07 ft³/s (0.002 m³/s) Sept. 12, 13, 1965, Sept. 19, 1968.

REMARKS.--Records good except those for period of no gage-height record, which are fair. Recording rain gage at station since June 1966 (no winter records).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.9	12	9.0	24	21	14	22	10	8.0	3.0	.78	.86
2	2.8	8.8	7.7	23	19	13	19	9.5	7.0	2.8	.55	1.3
3	4.4	6.9	7.1	21	17	13	17	9.9	6.0	2.8	.49	1.7
4	4.9	5.8	6.8	21	17	12	19	11	5.3	2.9	.59	3.7
5	4.1	5.4	6.5	19	15	12	21	10	4.8	2.6	.66	1.9
6	3.5	5.0	8.6	18	13	12	21	9.5	4.3	3.3	.66	1.2
7	3.1	4.9	9.3	17	14	11	19	9.2	3.9	2.9	.66	4.6
8	2.9	4.6	9.1	16	14	10	17	8.8	3.6	2.3	.91	4.3
9	2.9	4.6	11	13	14	10	20	8.7	3.4	2.0	.74	2.4
10	2.9	4.6	14	14	12	10	27	11	3.2	1.8	.62	1.5
11	2.8	4.5	13	16	13	9.7	25	12	3.0	1.6	.55	1.2
12	2.7	4.5	12	19	12	9.3	21	11	2.8	1.6	.55	1.1
13	2.7	4.5	10	16	12	9.0	19	14	2.7	1.5	.49	.91
14	2.7	4.5	17	14	12	8.7	20	13	2.6	1.4	.46	.82
15	2.6	4.3	21	14	12	8.7	20	11	2.5	1.4	.43	.74
16	2.5	4.3	20	14	12	8.7	18	9.7	3.2	1.4	.34	.70
17	2.4	4.3	33	13	11	23	16	9.0	6.0	1.8	.34	.66
18	2.4	4.3	58	11	11	26	15	8.5	5.2	1.8	.40	.62
19	2.4	4.3	43	16	11	20	14	8.0	4.3	1.4	.40	.52
20	2.4	4.1	35	18	18	16	14	7.5	3.7	1.4	.34	.52
21	2.4	3.9	36	18	21	19	13	6.2	4.5	1.3	.26	.59
22	2.4	4.3	42	29	21	35	13	5.6	8.7	1.2	.28	2.4
23	2.4	4.5	35	30	26	31	13	6.4	6.9	1.1	.31	1.2
24	2.4	4.4	29	27	23	26	13	7.0	5.7	1.0	.34	.91
25	2.4	5.4	25	25	20	22	12	6.7	4.5	1.0	.31	.78
26	2.4	6.1	25	22	17	19	12	6.2	4.1	1.0	.28	.70
27	2.3	5.8	36	24	15	18	11	6.4	3.8	1.0	.26	.66
28	2.3	9.5	35	27	14	17	11	6.8	3.6	1.0	.26	.59
29	2.9	12	29	28	------	16	10	7.0	3.5	1.0	.28	6.6
30	10	11	27	26	------	16	10	6.4	3.4	.96	1.0	5.1
31	14	------	26	23	------	21	------	7.0	------	.91	1.6	------
TOTAL	105.9	173.1	696.1	616	437	496.1	502	273.0	134.2	53.17	16.14	50.78
MEAN	3.42	5.77	22.5	19.9	15.6	16.0	16.7	8.81	4.47	1.72	.52	1.69
MAX	14	12	58	30	26	35	27	14	8.7	3.3	1.6	6.6
MIN	2.3	3.9	6.5	11	11	8.7	10	5.6	2.5	.91	.26	.52
CFSM	.62	1.04	4.07	3.60	2.82	2.89	3.02	1.59	.81	.31	.09	.31
IN.	.71	1.16	4.68	4.14	2.94	3.34	3.38	1.84	.90	.36	.11	.34

CAL YR 1973 TOTAL 4,529.40 MEAN 12.4 MAX 58 MIN 2.2 CFSM 2.24 IN 30.47
WTR YR 1974 TOTAL 3,553.49 MEAN 9.74 MAX 58 MIN .26 CFSM 1.76 IN 23.90

NOTE.--No gage-height record May 20 to June 19.

PEAK DISCHARGE (BASE, 36 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-18	0100	4.40	61				
12-22	0200	3.98	43				
12-27	1500	3.84	37				
3-22	1115	3.81	36				

01117800 WOOD RIVER NEAR ARCADIA, R.I.

LOCATION.--Lat 41°34'26", long 71°43'16", Washington County, on left bank at upstream side of bridge on Ten Rod Road, 1.8 mi (2.9 km) northwest of Arcadia, and 4.5 mi (7.2 km) north of Hope Valley.

DRAINAGE AREA.--35.2 mi² (91.2 km²).

PERIOD OF RECORD.--January 1964 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 130 ft (40 m) from topographic map.

AVERAGE DISCHARGE.--10 years, 72.6 ft³/s (2.056 m³/s), 28.01 in/yr (711 mm/yr).

EXTREMES.--Current year: Maximum discharge, 375 ft³/s (10.6 m³/s) Dec. 18 (gage height, 6.16 ft or 1.878 m); minimum, 7.3 ft³/s (0.21 m³/s) Aug. 16.
Period of record: Maximum discharge, 896 ft³/s (25.4 m³/s) Mar. 18, 1968 (gage height, 8.64 ft or 2.633 m); minimum, about 5.8 ft³/s (0.16 m³/s) about Sept. 8, 9, 1964.

REMARKS.--Records excellent. Records of suspended-sediment loads for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26	101	74	174	151	129	163	73	56	31	14	21
2	25	90	63	162	137	126	148	68	59	28	13	24
3	38	74	55	149	129	123	137	70	53	30	13	25
4	37	61	50	145	121	118	159	78	48	31	13	30
5	33	53	50	133	114	112	160	72	44	37	13	24
6	31	47	68	125	107	107	153	67	41	43	12	20
7	29	43	71	120	107	103	138	66	38	33	12	48
8	27	40	68	113	105	97	126	63	36	28	14	47
9	26	37	76	106	104	92	155	61	35	25	13	37
10	25	36	106	106	99	92	185	73	34	22	12	31
11	24	34	98	118	97	88	171	80	32	20	10	25
12	23	33	91	124	94	85	154	77	30	18	9.9	22
13	23	33	78	111	92	82	144	114	29	17	11	20
14	23	33	126	106	94	79	143	109	27	16	9.3	17
15	23	32	156	100	92	76	143	99	26	18	8.6	15
16	22	33	147	98	85	78	135	84	28	26	8.5	15
17	21	33	237	95	87	199	123	74	58	65	8.7	14
18	21	32	366	89	85	213	114	65	54	42	10	29
19	21	31	309	126	83	178	108	59	43	35	9.5	30
20	21	30	228	138	199	146	103	55	38	33	11	22
21	41	30	235	139	204	185	99	47	50	28	10	16
22	44	33	325	230	205	328	96	42	81	24	9.7	30
23	39	35	284	245	273	294	95	43	60	22	9.4	24
24	35	35	225	239	227	236	94	48	53	20	9.5	19
25	31	43	181	207	186	193	92	54	45	18	9.3	16
26	26	48	168	177	160	165	88	48	41	18	8.7	15
27	23	46	236	189	139	150	84	48	40	17	8.3	14
28	22	74	239	192	129	136	82	48	37	17	8.2	13
29	25	92	213	209	------	127	79	50	36	17	9.6	76
30	97	84	201	186	------	128	75	52	34	16	17	71
31	109	------	185	166	------	169	------	49	------	15	26	------
TOTAL	1,011	1,426	5,009	4,617	3,705	4,434	3,746	2,036	1,286	810	351.2	810
MEAN	32.6	47.5	162	149	132	143	125	65.7	42.9	26.1	11.3	27.0
MAX	109	101	366	245	273	328	185	114	81	65	26	76
MIN	21	30	50	89	83	76	75	42	26	15	8.2	13
CFSM	.93	1.35	4.60	4.23	3.75	4.06	3.55	1.87	1.22	.74	.32	.77
IN.	1.07	1.51	5.29	4.88	3.92	4.69	3.96	2.15	1.36	.86	.37	.86

CAL YR 1973 TOTAL 35,253.0 MEAN 96.6 MAX 477 MIN 16 CFSM 2.74 IN 37.26
WTR YR 1974 TOTAL 29,241.2 MEAN 80.1 MAX 366 MIN 8.2 CFSM 2.28 IN 30.90

PEAK DISCHARGE (BASE, 250 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-18	1530	6.16	375				
12-22	0145	5.81	332				
2-23	0400	5.42	285				
3-22	0130	5.86	338				

01118000 WOOD RIVER AT HOPE VALLEY, R.I.

LOCATION.--Lat 42°29'53", long 71°43'01", Washington County, on right bank 0.2 mi (0.3 km) downstream from highway bridge at Hope Valley and 6.6 mi (10.6 km) upstream from mouth.

DRAINAGE AREA.--72.4 mi² (187.5 km²).

PERIOD OF RECORD.--August to December 1909 (gage heights only), March 1941 to current year. Records of daily discharge for August to December 1909, published in WSP 261, have been found to be unreliable and should not be used.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 65 ft (20 m) from topographic map. August to December 1909, nonrecording gage at site 1,000 ft (300 m) upstream at different datum.

AVERAGE DISCHARGE.--33 years, 150 ft³/s (4.248 m³/s), 28.14 in/yr (715 mm/yr).

EXTREMES.--Current year: Maximum discharge, 820 ft³/s (23.2 m³/s) Dec. 18 (gage height, 5.47 ft or 1.667 m); minimum, 22 ft³/s (0.62 m³/s) Aug. 28.

Period of record: Maximum discharge, 1,720 ft³/s (48.7 m³/s) Mar. 18, 1968 (gage height, 8.26 ft or 2.518 m), from rating curve extended above 970 ft³/s (27.5 m³/s); minimum, 4.4 ft³/s (0.12 m³/s) Oct. 18, 1941; minimum daily, 10 ft³/s (0.28 m³/s) Oct. 13, 1941.

Maximum stage since 1711, at least 12.4 ft (3.78 m) in February 1886. Flood of November 1927 reached a stage of 11.7 ft (3.57 m), and flood of March 1936 reached a discharge of 1,540 ft³/s (43.6 m³/s).

REMARKS.--Records excellent. Some seasonal regulation by Locustville Pond on Brushy Brook since 1968. Some regulation at low flow by mills and ponds above station until 1952; regulation greater prior to 1948.

REVISIONS (WATER YEARS).--WSP 1201: 1948(P). See also PERIOD OF RECORD.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	53	185	135	355	305	260	339	137	124	70	33	40
2	50	154	113	333	277	255	295	135	142	64	32	41
3	68	127	91	300	260	250	270	150	123	64	30	46
4	84	105	86	291	250	240	301	170	108	68	30	67
5	71	91	82	265	235	230	348	155	100	67	30	75
6	62	84	115	250	220	220	334	145	94	96	29	66
7	57	77	129	235	220	210	293	143	85	81	29	136
8	54	73	131	225	215	200	264	139	80	63	30	189
9	52	70	148	215	210	190	304	134	78	56	30	128
10	49	67	210	217	205	190	404	156	77	51	29	98
11	48	62	195	234	200	180	372	179	74	47	27	85
12	47	61	168	256	190	175	325	167	68	44	26	78
13	46	61	146	231	185	170	301	219	64	41	25	73
14	46	61	204	208	190	160	305	220	61	38	25	69
15	45	60	337	208	185	160	299	192	59	36	24	63
16	45	70	300	201	175	165	283	169	60	38	24	59
17	43	87	468	197	180	360	257	146	122	115	24	56
18	42	79	773	179	175	424	240	132	142	107	24	56
19	43	70	614	231	170	351	229	126	100	67	24	62
20	43	61	470	282	353	289	221	116	83	62	24	64
21	47	53	459	280	417	342	210	108	92	56	24	56
22	62	58	648	415	380	711	203	102	199	49	24	71
23	61	64	562	433	500	585	203	103	161	44	24	70
24	56	65	454	422	433	456	198	117	125	40	24	58
25	53	79	378	403	374	397	190	137	103	39	23	51
26	49	91	353	358	321	343	184	124	90	38	23	48
27	46	89	457	380	282	307	176	116	86	37	24	43
28	42	129	461	406	260	280	169	115	83	37	23	38
29	46	181	419	413	------	260	154	114	78	37	24	113
30	159	163	401	392	------	259	139	121	74	36	26	208
31	250	------	385	344	------	328	------	113	------	35	36	------
TOTAL	1,919	2,677	9,892	9,159	7,367	8,947	7,810	4,400	2,935	1,723	824	2,307
MEAN	61.9	89.2	319	295	263	289	260	142	97.8	55.6	26.6	76.9
MAX	250	185	773	433	500	711	404	220	199	115	36	208
MIN	42	53	82	179	170	160	139	102	59	35	23	38
CFSM	.86	1.23	4.41	4.07	3.63	3.99	3.59	1.96	1.35	.77	.37	1.06
IN.	.99	1.38	5.08	4.71	3.79	4.60	4.01	2.26	1.51	.89	.42	1.19

CAL YR 1973 TOTAL 72,675 MEAN 199 MAX 960 MIN 38 CFSM 2.75 IN 37.34
WTR YR 1974 TOTAL 59,960 MEAN 164 MAX 773 MIN 23 CFSM 2.27 IN 30.81

PEAK DISCHARGE (BASE, 550 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-18	0930	5.47	820				
12-22	1300	4.95	686				
3-22	1330	5.28	770				

01118500 PAWCATUCK RIVER AT WESTERLY, R.I.

LOCATION.--Lat 41°23'01", long 71°50'01", Washington County, on left bank at Westerly, 2.1 mi (3.4 km) downstream from Shunock River.

DRAINAGE AREA.--295 mi^2 (764 km^2).

PERIOD OF RECORD.--November 1940 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1.76 ft (0.536 m) below mean sea level, datum of 1929.

AVERAGE DISCHARGE.--34 years, 564 ft^3/s (15.97 m^3/s), 25.96 in/yr (659 mm/yr), adjusted for diversion.

EXTREMES.--Current year: Maximum discharge, 1,930 ft^3/s (54.7 m^3/s) Dec. 18 (gage height, 6.64 ft or 2.024 m); minimum daily, 120 ft^3/s (3.40 m^3/s) Aug. 26, 27.

Period of record: Maximum discharge, 4,470 ft^3/s (127 m^3/s) Mar. 18, 1968 (gage height, 10.49 ft or 3.197 m); maximum gage height, 12.16 ft (3.706 m) Aug. 31, 1954 (backwater from tide); minimum daily discharge, 25 ft^3/s (0.71 m^3/s) Aug. 17, 1941.

Flood of March 1936 reached a discharge of 3,150 ft^3/s (89.2 m^3/s), by computation of flow over dam 1.5 mi (2.4 km) upstream from station. Maximum discharge since 1886 occurred in November 1927 and was possibly more than twice that of March 1936. Maximum stage since at least 1635, 15.0 ft (4.57 m) Sept. 21, 1938 (due to hurricane tidal wave).

REMARKS.--Records good. Diurnal fluctuation at low flow prior to 1962 by mills above station; regulation much greater prior to 1958. Diversion above station for municipal supply of Westerly.

REVISIONS.--WSP 1051: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	235	543	473	1,230	1,200	858	1,090	599	459	294	182	163
2	230	487	414	1,140	1,090	842	1,070	564	536	289	174	174
3	244	426	354	1,060	985	828	1,000	578	508	278	174	182
4	268	365	336	1,010	918	775	1,060	620	466	283	174	199
5	273	320	325	925	798	745	1,160	613	420	289	171	204
6	263	309	348	880	760	708	1,170	585	395	304	163	199
7	249	294	395	835	790	685	1,100	550	376	315	155	239
8	244	289	388	790	768	655	992	536	359	289	163	299
9	235	278	414	738	745	641	1,040	501	342	263	159	294
10	239	273	536	722	700	620	1,280	529	336	249	152	259
11	239	268	564	782	700	620	1,310	606	325	235	148	230
12	235	259	529	872	685	599	1,250	613	315	225	144	212
13	235	254	473	835	670	564	1,180	655	299	221	144	204
14	230	254	536	768	678	550	1,160	678	294	216	141	195
15	221	259	768	752	670	550	1,110	662	283	204	137	186
16	221	259	782	730	641	536	1,050	599	278	204	134	182
17	216	259	1,180	715	627	970	992	557	354	216	134	171
18	216	268	1,870	648	634	1,200	925	501	426	230	137	171
19	216	263	1,790	738	634	1,180	888	473	414	249	141	171
20	216	263	1,680	888	888	1,050	858	452	359	235	134	171
21	216	259	1,650	910	1,080	1,110	812	439	348	221	134	174
22	212	263	1,840	1,270	1,160	1,670	790	426	508	212	130	216
23	216	268	1,750	1,470	1,360	1,750	775	426	543	204	127	212
24	216	273	1,590	1,490	1,380	1,680	752	459	501	204	127	191
25	216	299	1,390	1,460	1,280	1,500	730	487	432	195	127	178
26	216	320	1,200	1,330	1,140	1,300	700	494	365	191	120	171
27	212	325	1,460	1,330	1,010	1,140	678	466	336	186	120	167
28	208	388	1,580	1,390	902	1,040	655	466	325	186	124	163
29	208	501	1,470	1,460	------	932	648	452	320	182	127	283
30	354	508	1,390	1,460	------	925	613	480	309	186	137	382
31	529	------	1,300	1,360	------	1,010	------	452	------	182	159	------
TOTAL	7,528	9,594	30,775	31,988	24,893	29,233	28,838	16,518	11,531	7,237	4,493	6,242
MEAN	243	320	993	1,032	889	943	961	533	384	233	145	208
MAX	529	543	1,870	1,490	1,380	1,750	1,310	678	543	315	182	382
MIN	208	254	325	648	627	536	613	426	278	182	120	163
MEAN†	246	323	996	1,035	892	947	965	537	389	239	150	212
CFSM†	.83	1.09	3.38	3.51	3.02	3.21	3.27	1.82	1.32	.81	.51	.72
IN.†	.96	1.22	3.89	4.05	3.15	3.70	3.65	2.10	1.47	.93	.59	.80

CAL YR 1973 TOTAL 272,296 MEAN 746 MAX 2,260 MIN 204 MEAN† 750 CFSM† 2.54 IN† 34.51
WTR YR 1974 TOTAL 208,870 MEAN 572 MAX 1,870 MIN 120 MEAN† 576 CFSM† 1.95 IN† 26.52

† Adjusted for diversion for municipal supply of Westerly. Diversion records furnished by Westerly Department of Public Works.

01123360 QUINEBAUG RIVER BELOW EAST BRIMFIELD DAM, AT FISKDALE, MASS.

LOCATION.--Lat 42°06'31", long 72°07'27", Worcester County, on right bank at Fiskdale, 750 ft (230 m) downstream from East Brimfield Dam and 2.4 mi (3.9 km) upstream from Cedar Pond outlet.

DRAINAGE AREA.--67.5 mi² (174.8 km²).

PERIOD OF RECORD.--October 1972 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 610 ft (190 m) from topographic map.

EXTREMES.--Current year: Maximum discharge, 826 ft³/s (23.4 m³/s) Dec. 26 (gage height, 5.99 ft or 1.826 m); minimum daily, 5.0 ft³/s (0.14 m³/s) Aug. 17.

Period of record: Maximum discharge, 975 ft³/s (22.6 m³/s) Feb. 5, 1973 (gage height, 6.29 ft or 1.917 m); minimum daily, 5.0 ft³/s (0.14 m³/s) Aug. 17, 1974.

Maximum discharge since at least 1886, 15,400 ft³/s (436 m³/s) Aug. 19, 1955, by slope-area measurement. Flood of Mar. 18, 1936, reached a discharge of 2,390 ft³/s (67.7 m³/s) and flood of September 1938, 7,000 ft³/s (198 m³/s), both by computation of flow over dam.

REMARKS.--Records excellent. Flow regulated by East Brimfield Lake (see p. 128).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	56	136	77	366	330	186	226	136	82	27	12	30
2	78	108	66	322	273	182	228	132	92	25	11	26
3	136	85	55	287	233	175	220	124	93	33	11	27
4	116	57	51	266	217	170	216	130	83	45	11	78
5	129	41	55	263	196	170	222	124	71	51	12	116
6	119	45	115	226	166	143	225	118	59	96	11	115
7	115	38	156	213	178	154	212	115	50	120	11	112
8	110	35	155	209	170	144	195	111	43	109	11	113
9	47	32	139	187	168	136	193	104	37	81	9.9	106
10	45	30	165	183	142	133	206	112	31	57	9.0	83
11	47	17	178	192	143	122	206	145	28	40	8.1	60
12	40	28	157	193	120	117	211	156	25	28	7.7	46
13	36	32	85	181	131	119	224	198	23	22	7.1	36
14	35	28	135	165	132	101	238	223	21	18	6.9	38
15	31	25	142	153	130	98	279	211	19	22	6.4	32
16	28	25	160	167	128	106	290	182	20	30	5.5	26
17	26	23	193	163	116	213	268	156	41	33	5.0	21
18	26	21	260	124	112	304	233	131	58	27	6.6	19
19	25	19	273	164	108	293	216	115	56	24	6.7	18
20	24	18	244	167	156	267	214	104	47	20	6.7	18
21	24	17	138	177	210	228	206	96	40	17	6.4	46
22	21	19	256	216	236	431	188	93	44	15	6.2	108
23	22	21	508	251	330	554	173	87	43	13	6.3	149
24	22	22	708	289	349	454	162	91	37	12	8.1	138
25	20	32	683	286	312	359	155	104	31	11	8.5	104
26	20	40	716	257	242	286	147	107	28	11	7.8	76
27	19	44	702	306	221	255	137	98	26	12	7.0	58
28	16	58	782	301	197	223	130	88	29	13	7.3	50
29	18	81	777	426	-------	200	126	86	30	13	11	126
30	76	88	682	513	-------	188	118	83	28	13	17	261
31	129	-------	654	412	-------	203	-------	81	-------	13	27	-------
TOTAL	1,655	1,266	9,389	7,622	5,457	6,713	6,054	3,841	1,315	1,051	288.2	2,236
MEAN	53.4	42.2	303	246	195	217	202	124	43.8	33.9	9.30	74.5
MAX	129	136	782	513	349	554	290	223	93	120	27	261
MIN	16	17	51	124	108	98	118	81	19	11	5.0	18
MEAN†	55.2	40.9	312	245	189	217	199	123	41.9	33.3	4.93	82.2
CFSM†	.82	.61	4.62	3.63	2.80	3.21	2.95	1.82	.62	.49	.15	1.22
IN.†	.94	.68	5.33	4.19	2.92	3.70	3.29	2.11	.69	.57	.17	1.36

CAL YR 1973 TOTAL 53,595.0 MEAN 147 MAX 899 MIN 9.4 MEAN† 147 CFSM† 2.18 IN† 29.64
WTR YR 1974 TOTAL 46,887.2 MEAN 128 MAX 782 MIN 5.0 MEAN† 129 CFSM† 1.91 IN† 25.95

† Adjusted for change in contents in East Brimfield Lake.

01123600 QUINEBAUG RIVER BELOW WESTVILLE DAM, NEAR SOUTHBRIDGE, MASS.

LOCATION.--Lat 42°04'58", long 72°03'27", Worcester County, on right bank 200 ft (60 m) downstream from Westville Dam, 1.0 mi (1.6 km) upstream from McKinstry Brook, and 1.3 mi (2.1 km) west of Southbridge.

DRAINAGE AREA.--99.1 mi² (256.7 km²).

PERIOD OF RECORD.--October 1962 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 510 ft (155 m) from topographic map.

AVERAGE DISCHARGE.--12 years, 158 ft³/s (4.475 m³/s), 21.65 in/yr (550 mm/yr), adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 1,270 ft³/s (36.0 m³/s) Dec. 29 (gage height, 6.33 ft or 1.929 m); minimum daily, 8.3 ft³/s (0.24 m³/s) Aug. 16.
Period of record: Maximum discharge, 1,270 ft³/s (36.0 m³/s) Feb. 6, Dec. 29, 1973 (gage height, 6.33 ft or 1.929 m); minimum daily, 7.3 ft³/s (0.21 m³/s) Nov. 21, 28, 1964, July 30, 1965.

REMARKS.--Records good. Flow regulated by mills, by East Brimfield and Westville Lakes (see p. 128), and by other reservoirs above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	60	173	97	852	466	260	318	186	111	45	21	37
2	72	148	83	633	381	253	313	182	125	41	19	36
3	101	114	76	386	321	241	303	172	122	48	21	42
4	114	89	67	361	307	237	312	182	109	66	20	138
5	122	72	76	328	272	235	317	173	94	65	21	141
6	122	63	174	300	237	227	312	159	83	121	21	142
7	117	55	198	281	265	217	289	155	70	146	21	156
8	113	50	196	260	238	203	264	150	60	141	19	155
9	107	46	193	262	227	186	272	140	55	110	18	137
10	35	44	240	262	207	186	290	159	50	81	17	110
11	67	65	230	258	204	169	285	197	45	60	15	82
12	49	50	210	257	187	160	298	201	41	47	14	63
13	42	47	186	235	187	149	307	288	37	39	14	50
14	42	41	205	218	191	136	330	296	34	33	14	55
15	47	38	227	205	182	131	370	276	31	36	12	47
16	90	37	226	197	168	136	387	238	42	39	8.3	40
17	73	36	305	191	162	312	362	207	88	43	10	35
18	62	34	602	167	155	383	316	179	100	42	12	35
19	50	32	313	216	148	380	301	155	93	38	12	33
20	33	31	357	235	266	331	296	138	79	34	12	32
21	32	30	179	265	383	281	276	127	68	30	11	82
22	31	32	255	340	331	692	253	124	67	26	11	179
23	32	33	726	361	437	981	237	115	62	24	10	207
24	31	35	923	394	466	816	229	119	60	21	12	210
25	29	48	914	391	443	442	216	139	52	20	13	176
26	28	56	905	361	389	417	206	141	47	21	13	136
27	28	58	906	400	310	367	190	129	43	22	12	101
28	26	78	1.180	456	273	314	180	117	45	22	12	88
29	27	102	1.220	658	------	281	171	109	45	23	18	304
30	121	106	1.190	886	------	267	162	109	46	23	26	454
31	176	------	1.090	726	------	300	------	105	------	22	36	------
TOTAL	2.077	1.823	13.723	11.076	7.701	9.688	8.360	5.165	2.003	1.527	495.3	3.503
MEAN	67.0	60.8	443	357	275	313	279	167	66.8	49.3	16.0	117
MAX	176	173	1.220	886	466	981	387	296	125	146	36	454
MIN	26	30	67	167	148	131	162	105	31	20	8.3	32
MEAN†	69.1	59.3	468	342	268	313	276	166	64.6	48.5	16.6	127
CFSM†	.70	.60	4.72	3.45	2.70	3.16	2.79	1.68	.65	.49	.17	1.28
IN.†	.80	67	5.45	3.98	2.82	3.64	3.11	1.93	.73	.56	.19	1.42

CAL YR 1973 TOTAL 82.217.0 MEAN 225 MAX 1.220 MIN 21 MEAN† 227 CFSM† 2.29 IN† 31.12
WTR YR 1974 TOTAL 67.141.3 MEAN 184 MAX 1.220 MIN 8.3 MEAN† 185 CFSM† 1.87 IN† 25.30

† Adjusted for change in contents in East Brimfield and Westville Lakes.

NOTE.--Discharge in cubic feet per second per square mile and runoff in inches may not represent natural flow because of regulation.

01124000 QUINEBAUG RIVER AT QUINEBAUG, CONN.

LOCATION.--Lat 42°01'20", long 71°57'22", Windham County, on right bank at Quinebaug, 500 ft (152 m) upstream from bridge on State Highway 197, 0.2 mi (0.3 km) downstream from Massachusetts-Connecticut State line, 7.8 mi (12.6 km) upstream from French River, and at mile 46 (kilometre 74).

DRAINAGE AREA.--156 mi² (404 km²).

PERIOD OF RECORD.--September 1931 to current year.

GAGE.--Water-stage recorder. Datum of gage is 341.52 ft (104.095 m) above mean sea level.

AVERAGE DISCHARGE.--43 years, 267 ft³/s (7.561 m³/s), 23.26 in/yr (591 mm/yr), adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 2,650 ft³/s (75.0 m³/s) Dec. 21 (gage height, 6.26 ft or 1.908 m); minimum, 3.1 ft³/s (0.088 m³/s) Aug. 17.

Period of record: Maximum discharge, 49,300 ft³/s (1,400 m³/s) Aug. 19, 1955 (gage height, 18.96 ft or 5.779 m, from floodmarks), from rating curve extended above 5,100 ft³/s (144 m³/s) on basis of slope-area measurement of peak flow; minimum, about 1 ft³/s (0.028 m³/s) Sept. 9, 1943, July 12, 1949, Sept. 17, 18, 1950, July 9, 1951, Sept. 4, Oct. 29, 1956; minimum daily, about 1 ft³/s (0.028 m³/s) Sept. 4, 1956.

REMARKS.--Records good. Flow regulated by East Brimfield and Westville Lakes (see p. 128), and by smaller reservoirs upstream. Records of chemical analyses and water temperatures for the current year are published as Quinebaug River near Dudley, Mass., in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 851: 1936(M), WSP 1201: 1939-43, 1947, 1949. WSP 1381: 1938(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	73	302	170	1.020	757	408	483	275	185	65	24	29
2	80	254	148	672	611	394	462	262	203	56	22	29
3	116	199	135	580	522	366	450	250	192	85	44	47
4	132	157	123	542	493	361	493	270	168	100	25	277
5	145	127	146	484	457	358	478	247	142	125	26	200
6	140	109	372	448	424	337	461	227	119	224	22	183
7	132	95	343	419	392	318	419	225	103	217	23	244
8	127	83	306	382	377	295	379	214	87	191	21	229
9	118	77	330	352	356	270	434	198	78	148	19	188
10	64	71	436	340	343	264	458	246	73	111	18	147
11	58	68	384	330	311	243	442	300	65	82	16	111
12	58	75	338	320	292	228	466	294	58	62	15	83
13	43	73	293	320	277	217	473	530	51	46	14	62
14	43	65	360	320	291	206	500	474	44	41	14	71
15	40	59	416	313	273	196	636	415	37	69	14	58
16	106	61	371	297	245	208	611	351	121	49	13	45
17	92	56	683	285	235	601	536	302	256	54	6.8	37
18	80	53	830	278	223	605	464	263	213	50	13	53
19	74	49	604	320	222	557	461	224	166	46	12	36
20	48	45	578	370	548	478	447	202	132	41	12	32
21	44	43	1.620	422	535	759	411	181	112	34	11	131
22	43	51	1.390	654	638	1.190	373	174	112	29	12	280
23	45	53	1.220	673	888	1.240	350	172	100	27	9.6	268
24	42	55	1.240	717	759	1.010	334	179	91	23	12	263
25	28	102	1.130	664	677	678	319	208	77	18	9.2	221
26	27	112	1.240	593	583	595	296	204	71	23	9.6	171
27	25	113	1.360	1.010	471	525	275	190	63	25	10	130
28	24	155	1.480	1.100	417	458	256	178	67	24	14	112
29	29	188	1.420	1.110	------	406	241	171	65	26	38	980
30	277	182	1.340	1.180	------	390	229	167	61	27	28	862
31	328	------	1.230	1.030	------	484	------	156	------	26	33	------
TOTAL	2.681	3.132	22.036	17.545	12.617	14.645	12.637	7.749	3.312	2.144	560.2	5.579
MEAN	86.5	104	711	566	451	472	421	250	110	69.2	18.1	186
MAX	328	302	1.620	1.180	888	1.240	636	530	256	224	44	980
MIN	24	43	123	278	222	196	229	156	37	18	6.8	29
MEAN†	88.6	102	736	550	444	472	418	249	108	68.5	18.8	196
CFSM†	.57	.65	4.72	3.53	2.85	3.03	2.68	1.60	.69	.44	.12	1.26
IN.†	.66	.73	5.44	4.07	2.97	3.49	2.99	1.84	.77	.51	.14	1.41

CAL YR 1973 TOTAL 121.134.0 MEAN 332 MAX 1.750 MIN 24 MEAN† 334 CFSM† 2.14 IN† 29.02
WTR YR 1974 TOTAL 104.637.2 MEAN 287 MAX 1.620 MIN 6.8 MEAN† 288 CFSM† 1.85 IN† 25.02

† Adjusted for change in contents in East Brimfield and Westville Lakes.

01124350 FRENCH RIVER BELOW HODGES VILLAGE DAM, AT HODGES VILLAGE, MASS.

LOCATION.--Lat 42°07'06", long 71°52'54", Worcester County, on right bank at Hodges Village, 240 ft (73 m) downstream from Hodges Village Dam, 0.8 mi (1.3 km) west of Oxford, and 1.2 mi (1.9 km) upstream from Little River.

DRAINAGE AREA.--31.0 mi^2 (80.3 km^2).

PERIOD OF RECORD.--March 1962 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 480 ft (146 m) from topographic map.

AVERAGE DISCHARGE.--12 years, 51.5 ft^3/s (1.458 m^3/s), 22.56 in/yr (573 mm/yr), adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 355 ft^3/s (10.1 m^3/s) Dec. 28 (gage height, 2.86 ft or 0.872 m); minimum, 0.83 ft^3/s (0.024 m^3/s) Aug. 22; minimum daily, 5.8 ft^3/s (0.16 m^3/s) July 24, Aug. 23.
Period of record: Maximum discharge, 496 ft^3/s (14.0 m^3/s) Mar. 20, 1972 (gage height, 3.19 ft or 0.972m); maximum gage height, 3.24 ft (0.988 m) Mar. 28, 1963; no flow for part of July 17, 1968 (caused by unusual regulation); minimum daily discharge, 2.0 ft^3/s (0.057 m^3/s) Aug. 7, 1963.

REMARKS.--Records good. Flow regulated by Hodges Village Reservoir (see p. 128).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	54	67	26	149	180	83	98	57	38	15	6.0	11
2	54	58	23	114	130	72	95	70	48	14	6.8	9.1
3	49	50	21	100	107	78	93	61	46	17	12	9.9
4	46	42	20	85	99	79	87	65	39	27	12	58
5	46	32	19	76	94	82	89	64	32	25	11	57
6	47	32	61	71	89	78	83	56	27	55	9.7	49
7	45	28	75	69	86	63	74	53	25	69	8.4	51
8	44	25	60	68	86	59	65	53	24	54	8.1	58
9	42	22	55	61	84	56	66	50	21	38	8.1	43
10	40	21	97	57	76	49	76	53	20	28	7.6	36
11	38	20	103	60	74	48	74	78	18	20	7.3	33
12	38 •	18	79	62	73	46	87	74	17	15	6.8	31
13	39	17	71	61	73	42	102	109	16	13	6.5	29
14	39	16	66	56	73	40	114	140	16	10	6.5	47
15	37	16	104	55	71	35	134	120	15	9.7	6.5	57
16	29	15	100	55	68	34	162	95	24	9.7	6.3	43
17	16	15	92	54	63	89	128	76	80	8.7	5.9	37
18	11	14	164	48	63	156	95	71	86	8.1	8.5	33
19	10	13	169	58	63	141	84	59	66	7.6	9.0	31
20	9.3	12	116	71	103	103	89	47	48	7.9	7.7	29
21	9.3	11	51	72	130	88	85	39	37	7.9	6.8	33
22	8.7	11	116	98	135	265	78	35	34	7.6	6.4	60
23	8.7	12	182	129	228	293	74	33	29	6.5	5.8	56
24	8.4	13	184	153	259	202	77	35	24	5.8	7.9	43
25	7.7	18	184	146	225	144	73	41	20	6.3	8.5	37
26	7.1	26	243	126	167	106	66	45	19	6.5	6.8	33
27	7.1	25	166	146	122	86	59	45	19	6.3	6.4	31
28	7.1	27	330	268	108	72	55	45	19	6.0	7.0	30
29	7.2	33	329	310	------	64	51	41	18	6.0	17	126
30	47	30	280	301	------	59	49	40	16	6.0	15	241
31	85	------	236	243	------	74	------	37	------	6.0	14	------
TOTAL	936.6	739	3,822	3,422	3,129	2,886	2,562	1,887	941	522.6	262.3	1,442.0
MEAN	30.2	24.6	123	110	112	93.1	85.4	60.9	31.4	16.9	8.46	48.1
MAX	85	67	330	310	259	293	162	140	86	69	17	241
MIN	7.1	11	19	48	63	34	49	33	15	5.8	5.8	9.1
MEAN†	30.8	23.9	127	109	110	92.6	85.1	60.8	31.2	16.6	8.42	51.4
CFSM†	.99	.77	4.10	3.52	3.55	2.99	2.75	1.96	1.01	.54	.27	1.66
IN.†	1.15	.86	4.72	4.07	3.69	3.45	3.06	2.26	1.12	.62	.31	1.85

CAL YR 1973 TOTAL 26,023.6 MEAN 71.3 MAX 402 MIN 7.1 MEAN† 71.6 CFSM† 2.31 IN† 31.35
WTR YR 1974 TOTAL 22,551.5 MEAN 61.8 MAX 330 MIN 5.8 MEAN† 62.0 CFSM† 2.00 IN† 27.17

† Adjusted for change in contents in Hodges Village Reservoir.

01124500 LITTLE RIVER AT BUFFUMVILLE, MASS.

LOCATION.--Lat 42°06'57", long 71°53'26", Worcester County, on left bank 0.6 mi (1.0 km) upstream from mouth, 0.8 mi (1.3 km) east of Buffumville, 1.1 mi (1.8 km) downstream from Buffumville Dam, and 1.5 mi (2.4 km) west of Oxford.

DRAINAGE AREA.--27.7 mi² (71.7 km²).

PERIOD OF RECORD.--July 1939 to current year.

GAGE.--Water-stage recorder. Datum of gage is 457.00 ft (139.294 m) above mean sea level, unadjusted (levels by Corps of Engineers).

AVERAGE DISCHARGE.--35 years, 46.8 ft³/s (1.325 m³/s), 22.94 in/yr (583 mm/yr), adjusted for storage.

EXTREMES.--Current year: Maximum discharge, about 360 ft³/s (10.2 m³/s) Mar. 23; minimum, 2.2 ft³/s (0.062 m³/s) Aug. 25, 26, 27.
Period of record: Maximum discharge, 8,340 ft³/s (236 m³/s) Aug. 19, 1955 (gage height, 15.53 ft or 4.734 m), from rating curve extended above 1,200 ft³/s (34.0 m³/s) on basis of computation of peak flow over dam; minimum, 0.1 ft³/s (0.003 m³/s) Sept. 25, 26, 1957. Maximum discharge since construction of Buffumville Dam in 1958, 429 ft³/s (12.1 m³/s) Apr. 7, 1959 (gage height, 5.04 ft or 1.536 m).

REMARKS.--Records excellent except those for periods of no gage-height record, which are fair. Flow regulated by Buffumville Lake since 1958 (see p. 128) and by other reservoirs upstream. Prior to 1958, flow regulated by mill above station.

REVISIONS (WATER YEARS).--WSP 1201: 1940, 1948.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	66	33	293	149	77	105	49	32	18	3.9	5.8
2	14	59	28	252	124	74	110	51	37	16	3.6	5.6
3	13	48	24	166	107	70	105	50	38	19	5.2	7.5
4	16	38	22	119	94	68	105	52	35	22	4.4	24
5	24	35	23	95	84	69	115	52	31	26	4.9	31
6	27	34	43	80	75	66	115	48	27	37	4.8	29
7	29	34	58	72	71	64	105	45	23	44	4.9	33
8	29	32	56	64	67	59	96	42	20	37	4.8	36
9	30	27	55	60	64	55	98	39	19	31	4.5	34
10	28	21	77	58	59	53	100	42	17	24	4.1	29
11	25	17	91	62	56	51	98	54	15	20	3.8	24
12	24	15	85	61	53	46	100	61	14	17	3.6	19
13	23	14	64	57	50	43	110	95	13	14	3.3	16
14	21	14	71	53	51	40	125	116	12	11	3.1	15
15	17	13	94	50	50	39	140	106	11	11	2.8	13
16	13	13	100	49	47	40	150	85	22	9.4	2.6	12
17	10	13	98	47	45	87	130	67	61	8.7	2.6	10
18	8.4	12	73	44	43	134	110	55	90	8.0	3.4	9.9
19	7.2	12	72	50	42	128	96	47	77	7.4	3.0	8.8
20	6.6	12	74	57	74	105	90	40	55	5.8	2.8	8.2
21	6.0	11	86	66	110	115	82	35	41	5.2	2.7	11
22	5.6	12	104	89	127	230	74	32	35	4.9	2.5	18
23	5.3	12	169	111	181	350	70	31	31	4.8	2.4	22
24	5.0	13	169	125	193	290	66	32	28	4.4	2.5	21
25	4.6	18	167	123	158	135	62	34	24	4.6	2.4	19
26	5.7	22	196	110	126	94	57	36	21	4.4	2.3	17
27	7.9	25	121	136	101	100	53	35	20	4.4	2.4	14
28	7.9	30	273	204	85	100	49	33	20	4.4	2.9	13
29	9.2	35	305	222	------	92	46	32	20	4.4	6.0	90
30	31	36	293	234	------	84	44	32	19	4.3	5.7	188
31	56	------	298	183	------	92	------	30	------	4.1	6.1	------
TOTAL	525.4	743	3.426	3.392	2.486	3.050	2.806	1.558	908	436.2	114.0	783.8
MEAN	16.9	24.8	111	109	88.8	98.4	93.5	50.3	30.3	14.1	3.68	26.1
MAX	56	66	305	293	193	350	150	116	90	44	6.1	188
MIN	4.6	11	22	44	42	39	44	30	11	4.1	2.3	5.6
MEAN†	18.9	23.8	131	93.4	85.2	98.4	92.2	49.6	29.6	12.8	4.01	32.8
CFSM†	.68	.86	4.73	3.37	3.08	3.55	3.33	1.79	1.07	.46	.14	1.18
IN.†	.79	.96	5.47	3.89	3.20	4.10	3.72	2.06	1.19	.53	.17	1.32

CAL YR 1973 TOTAL 22.390.5 MEAN 61.3 MAX 305 MIN 4.3 MEAN† 63.0 CFSM† 2.27 IN† 30.90
WTR YR 1974 TOTAL 20.228.4 MEAN 55.4 MAX 350 MIN 2.3 MEAN† 55.9 CFSM† 2.02 IN† 27.39

† Adjusted for change in contents in Buffumville Lake.
NOTE.--No gage-height record Oct. 1-24, Mar. 20 to Apr. 21.

01124750 BROWNS BROOK NEAR WEBSTER, MASS.

LOCATION.--Lat 42°03'24", long 71°49'51", Worcester County, on left bank 15 ft (5 m) downstream from culvert on State Highway 16 and 1.8 mi (2.9 km) east of Webster.

DRAINAGE AREA.--0.49 mi^2 (1.27 km^2).

PERIOD OF RECORD.--October 1962 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 630 ft (192 m) from topographic map.

AVERAGE DISCHARGE.--11 years (1963-74), 1.08 ft^3/s (0.031 m^3/s), 29.93 in/yr (760 mm/yr).

EXTREMES.--Current year: Maximum discharge, 20 ft^3/s (0.57 m^3/s) Mar. 21 (gage height, 1.98 ft or 0.604 m); no flow Aug. 14-16, 25-27. Period of record: Maximum discharge, 125 ft^3/s (3.54 m^3/s) Mar. 18, 1968 (gage height, 2.46 ft or 0.750 m); no flow at times during water years 1963-65, 1968-71, 1974.

REMARKS.--Records good except those for period of no gage-height record, which are fair. Recording rain gage at station since April 1963 (no winter records). Records of chemical analyses and water temperatures for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.11	2.5	.80	2.4	2.8	2.0	2.8	1.6	.89	.25	.03	.04
2	.11	2.0	.80	2.4	2.4	2.0	2.4	1.4	.89	.22	.03	.04
3	.13	1.6	.80	2.2	2.2	1.6	2.4	1.3	.79	.46	.11	.11
4	.13	1.4	.80	2.2	2.0	1.6	2.4	1.4	.79	.34	.11	.40
5	.21	1.3	1.1	1.8	1.8	1.4	2.4	1.4	.70	.89	.15	.13
6	.21	1.3	3.0	1.6	1.4	1.3	2.4	1.3	.70	.89	.08	.08
7	.21	1.1	2.1	1.4	1.3	1.2	2.2	1.3	.61	.34	.05	.29
8	.21	1.1	1.9	1.3	1.2	1.1	2.0	1.2	.61	.25	.04	.18
9	.21	.94	3.2	1.1	1.1	.99	2.4	1.2	.53	.18	.03	.09
10	.18	.94	4.0	.79	.99	.99	2.8	1.4	.46	.15	.03	.06
11	.18	.69	3.2	.79	.89	1.1	2.4	1.4	.46	.15	.02	.05
12	.18	.69	3.0	.79	.79	1.1	2.6	1.4	.40	.15	.02	.04
13	.15	.69	2.4	.79	.70	.99	2.6	2.8	.40	.13	.01	.03
14	.15	.69	3.6	.79	.70	.99	2.6	2.2	.34	.11	0	.11
15	.15	.51	3.2	.79	.70	.89	4.0	2.2	.34	.18	0	.06
16	.13	.51	2.6	.79	.61	.89	3.2	2.2	.46	.15	0	.05
17	.13	.51	6.7	.70	.61	2.8	3.0	2.2	.89	.13	.02	.04
18	.13	.43	8.1	.61	.61	2.2	2.8	2.0	.53	.09	.08	.08
19	.13	.43	4.8	.99	.61	1.6	3.0	1.6	.34	.09	.05	.06
20	.13	.43	4.0	.89	2.4	1.6	2.8	1.4	.29	.11	.03	.05
21	.13	.38	8.1	.99	2.2	4.8	2.6	1.4	.29	.09	.02	.61
22	.13	.43	7.5	2.0	2.8	9.3	2.4	1.3	.29	.06	.01	.70
23	.11	.43	4.8	2.0	3.6	5.2	2.2	1.3	.29	.06	.01	.18
24	.11	.38	3.6	2.4	3.0	4.4	2.2	1.3	.29	.06	.01	.11
25	.11	.69	3.2	2.4	3.0	3.4	2.0	1.3	.29	.06	0	.08
26	.11	.59	3.2	2.4	2.6	3.2	1.8	1.2	.29	.06	0	.06
27	.11	.59	3.6	6.7	2.4	2.8	1.4	1.1	.29	.08	0	.06
28	.11	.94	3.0	5.2	2.2	2.4	1.4	1.1	.29	.09	.02	.06
29	.30	.94	3.0	5.2	------	2.4	1.4	.99	.29	.09	.06	2.6
30	4.5	.80	3.0	3.6	------	2.4	1.2	.99	.25	.08	.08	1.3
31	3.5	------	2.8	3.2	------	3.2	------	.99	------	.05	.08	------
TOTAL	12.39	25.93	105.90	61.21	47.61	71.84	71.8	45.87	14.28	6.04	1.18	7.75
MEAN	.40	.86	3.42	1.97	1.70	2.32	2.39	1.48	.48	.19	.038	.26
MAX	4.5	2.5	8.1	6.7	3.6	9.3	4.0	2.8	.89	.89	.15	2.6
MIN	.11	.38	.80	.61	.61	.89	1.2	.99	.25	.05	0	.03
CFSM	.82	1.76	6.98	4.02	3.47	4.73	4.88	3.02	.98	.39	.08	.53
IN.	.94	1.97	8.04	4.65	3.61	5.45	5.45	3.48	1.08	.46	.09	.59

CAL YR 1973 TOTAL 489.01 MEAN 1.34 MAX 10 MIN .08 CFSM 2.73 IN 37.12
WTR YR 1974 TOTAL 471.80 MEAN 1.29 MAX 9.3 MIN 0 CFSM 2.63 IN 35.82

NOTE.--No gage-height record Oct. 29 to Nov. 4.

PEAK DISCHARGE (BASE, 5.0 ft^3/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10-29	-	-	*5.5	12-21	1345	1.86	11
12-9	1745	1.74	5.6	1-27	0845	1.83	9.3
12-14	1245	1.74	5.2	3-21	1800	1.98	20
12-17	1215	1.85	11	9-29	0345	1.84	9.9

*About

01125000 FRENCH RIVER AT WEBSTER, MASS.

LOCATION.--Lat 42°03'03", long 71°53'08", Worcester County, on right bank in Dudley, 50 ft (15 m) upstream from Pleasant Street Bridge at Webster, and 1.1 mi (1.8 km) upstream from Potash Brook.

DRAINAGE AREA.--85.3 mi² (220.9 km²).

PERIOD OF RECORD.--December 1948 to current year.

GAGE.--Water-stage recorder. Datum of gage is 406.74 ft (123.974 m) above mean sea level.

AVERAGE DISCHARGE.--25 years (1949-74), 156 ft³/s (4.418 m³/s), 24.84 in/yr (631 mm/yr), adjusted for storage in flood-control reservoirs.

EXTREMES.--Current year: Maximum discharge, 831 ft³/s (23.5 m³/s) Dec. 29, Mar. 23 (gage height, 7.43 ft or 2.265 m); minimum daily, 15 ft³/s (0.42 m³/s) Aug. 1.

Period of record: Maximum discharge, 14,400 ft³/s (408 m³/s) Aug. 19, 1955 (gage height, 26.05 ft or 7.940 m, from floodmarks), from rating curve extended above 2,400 ft³/s (68.0 m³/s) on basis of computation of peak flow over dam; minimum daily, 2.2 ft³/s (0.062 m³/s) Aug. 15, 1965. Maximum discharge since construction of Buffumville Dam in 1958, 1,020 ft³/s (28.9 m³/s) Apr. 2, 1960 (gage height, 7.56 ft or 2.304 m); maximum gage height, 7.92 ft (2.414 m) Mar. 21, 1968.

Flood of Mar. 19, 1936, reached a discharge of 4,700 ft³/s (133 m³/s), by computation of flow over dam about 0.5 mi (0.8 km) upstream.

REMARKS.--Records good except those for period of no gage-height record, which are fair. Flow regulated by mills, by Lake Chaubunagungamaug (estimated usable capacity, 207,000,000 ft³ or 5,860,000 m³), by Buffumville Lake and Hodges Village Reservoir (see p. 128), and by smaller reservoirs above station.

REVISIONS (WATER YEARS).--WSP 1721: 1959 (adjusted monthly and yearly figures only). WRD Mass., N.H., R.I., Vt., 1969: 1960.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	96	207	96	664	550	259	291	181	129	52	15	27
2	94	162	80	575	400	236	303	188	137	49	16	27
3	91	137	72	479	330	232	291	186	140	52	24	34
4	85	111	67	366	280	227	295	172	129	53	26	57
5	93	67	78	291	260	218	295	172	111	64	27	100
6	96	78	150	250	240	218	275	159	91	80	28	93
7	94	73	181	236	230	207	232	140	83	120	26	109
8	94	69	172	227	220	192	227	142	76	120	28	109
9	94	63	169	216	215	178	263	137	72	95	27	96
10	89	52	218	214	210	170	303	145	63	75	27	80
11	83	46	245	223	205	166	271	166	57	64	25	72
12	81	43	223	218	205	156	275	178	54	59	24	66
13	80	43	181	214	200	145	295	227	52	52	24	60
14	77	43	200	203	200	140	328	283	51	45	25	66
15	69	42	241	200	195	135	416	291	48	41	26	77
16	61	43	271	196	195	135	453	250	48	38	23	69
17	45	42	349	192	195	220	427	211	102	37	27	57
18	37	40	372	185	190	320	346	178	188	35	21	60
19	33	40	379	207	190	352	299	156	188	34	21	49
20	31	39	352	218	200	283	287	137	166	34	21	48
21	30	40	473	223	270	365	275	120	129	31	21	83
22	29	42	419	254	330	599	259	111	106	29	21	115
23	30	41	557	291	470	806	241	109	91	28	22	102
24	30	43	560	299	600	675	223	109	80	28	21	83
25	28	66	542	320	580	521	218	115	75	28	21	69
26	28	77	573	330	490	328	211	122	70	29	21	60
27	29	81	544	370	390	287	196	122	66	28	21	54
28	29	94	688	450	300	267	181	124	61	27	28	53
29	35	113	818	600	------	245	178	132	57	26	26	263
30	134	113	781	700	------	241	169	127	53	27	30	436
31	200	------	723	700	------	259	------	120	------	21	30	------
TOTAL	2.123	2.170	10.773	10.113	8.340	8.782	8.325	5.012	2.775	1.501	749	2.674
MEAN	68.5	72.3	348	326	298	283	278	162	92.5	48.4	24.2	89.1
MAX	200	207	818	700	600	806	453	291	188	120	30	436
MIN	28	39	67	185	190	135	169	109	48	21	15	27
MEAN†	71.1	70.6	372	309	292	283	276	161	91.7	46.9	24.5	99.1
CFSM†	.83	.83	4.36	3.62	3.42	3.32	3.24	1.89	1.08	.55	.29	1.16
IN. †	.96	.92	5.03	4.18	3.57	3.82	3.61	2.18	1.20	.63	.33	1.30

CAL YR 1973 TOTAL 70.957 MEAN 194 MAX 873 MIN 28 MEAN† 196 CFSM† 2.30 IN† 31.26
WTR YR 1974 TOTAL 63.337 MEAN 174 MAX 818 MIN 15 MEAN† 174 CFSM† 2.04 IN† 27.73

† Adjusted for change in contents in Buffumville Lake and Hodges Village Reservoir.
NOTE.--No gage-height record Jan. 25 to Feb. 28. Discharge in cubic feet per second per square mile and runoff in inches may not represent natural flow because of regulation.

01126200 BUCKS HORN BROOK AT GREENE, R.I.

LOCATION.--Lat 41°41'35", long 71°44'38", Kent County, on left bank 35 ft (11 m) upstream from culvert on State Highway 117 at Greene and 0.5 mi (0.8 km) upstream from Warwick Brook.

DRAINAGE AREA.--5.52 mi² (14.30 km²).

PERIOD OF RECORD.--June 1965 to September 1974 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 410 ft (125 m) from topographic map.

AVERAGE DISCHARGE.--9 years, 11.7 ft³/s (0.331 m³/s), 28.78 in/yr (731 mm/yr).

EXTREMES.--Current year: Maximum discharge, 133 ft³/s (3.77 m³/s) Dec. 18 (gage height, 3.71 ft or 1.131 m), from rating curve extended above 79 ft³/s (2.24 m³/s) on basis of measurement of peak flow through culvert at gage height 5.49 ft (1.673 m); minimum, 0.66 ft³/s (0.019 m³/s) Aug. 16, 17, 22, 23.

Period of record: Maximum discharge, 353 ft³/s (10.0 m³/s) Mar. 18, 1968 (gage height, 5.49 ft or 1.673 m), from rating curve extended above 79 ft³/s (2.24 m³/s) on basis of measurement of peak flow through culvert; minimum, 0.27 ft³/s (0.008 m³/s) Aug. 17-19, Sept. 10-13, 1965.

REMARKS.--Records good. Recording rain gage at station since June 1966 (no winter records).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.6	24	12	27	20	17	34	10	8.9	3.3	1.1	6.3
2	3.6	18	9.9	26	17	19	23	9.2	9.9	2.7	.98	2.8
3	7.7	13	8.9	21	15	16	21	9.6	7.6	3.3	.93	2.9
4	11	9.6	8.9	19	15	15	22	13	6.1	3.8	.93	4.1
5	7.0	8.6	11	19	15	15	25	10	5.4	2.9	.93	2.9
6	5.6	8.1	19	18	13	13	22	9.4	4.9	6.5	.93	1.9
7	4.9	7.7	19	17	13	12	19	9.4	4.3	3.8	.88	9.6
8	4.5	7.2	13	16	12	12	16	8.9	3.8	2.6	1.0	11
9	4.2	7.2	15	14	12	11	27	8.2	3.8	2.1	1.0	4.0
10	4.0	6.8	32	13	11	11	47	10	3.7	1.8	1.0	2.6
11	4.0	6.1	25	15	13	11	31	15	3.3	1.7	.93	2.0
12	3.9	6.1	17	17	12	10	24	12	3.0	1.5	.83	1.8
13	3.7	6.1	13	17	11	9.6	21	29	3.0	1.4	.78	1.6
14	3.7	6.1	26	12	13	9.4	22	21	2.9	1.3	.73	1.5
15	3.7	6.1	46	14	13	9.4	26	13	3.7	1.5	.69	1.3
16	3.7	6.5	28	14	10	10	24	11	3.1	1.6	.69	1.2
17	3.6	7.9	55	14	10	55	18	9.6	11	1.8	.66	1.2
18	3.6	7.5	98	13	9.9	42	16	8.7	8.9	1.7	.83	1.2
19	3.6	6.8	43	19	10	23	15	8.0	4.6	1.5	.88	1.2
20	3.6	6.1	32	28	52	18	15	7.6	3.6	1.7	.73	1.2
21	3.1	5.8	50	26	45	32	14	7.2	7.8	1.5	.73	1.7
22	3.3	6.5	91	55	30	91	13	6.9	15	1.3	.69	4.4
23	3.3	7.7	47	49	52	43	14	7.4	7.6	1.2	.66	2.8
24	3.3	6.8	34	41	32	31	16	9.4	6.5	1.2	.73	1.8
25	3.4	10	27	31	23	25	14	11	4.9	1.1	.73	1.5
26	3.3	12	26	25	19	21	13	8.9	4.7	1.1	.69	1.5
27	3.3	9.9	54	28	17	20	12	8.0	4.6	1.1	.69	1.4
28	3.3	16	47	35	16	18	12	7.8	4.1	1.1	.69	1.2
29	4.7	24	34	31	------	17	11	7.6	3.7	1.1	.83	16
30	29	18	29	28	------	17	10	8.2	3.6	1.1	7.4	16
31	40	------	29	22	------	36	------	7.2	------	1.1	19	------
TOTAL	193.2	292.2	999.7	724	530.9	689.4	597	322.2	168.0	61.4	50.27	110.6
MEAN	6.23	9.74	32.2	23.4	19.0	22.2	19.9	10.4	5.60	1.98	1.62	3.69
MAX	40	24	98	55	52	91	47	29	15	6.5	19	16
MIN	3.1	5.8	8.9	12	9.9	9.4	10	6.9	2.9	1.1	.66	1.2
CFSM	1.13	1.76	5.83	4.24	3.44	4.02	3.61	1.88	1.01	.36	.29	.67
IN.	1.30	1.97	6.74	4.88	3.58	4.65	4.02	2.17	1.13	.41	.34	.75

CAL YR 1973 TOTAL 5,807.30 MEAN 15.9 MAX 172 MIN 1.4 CFSM 2.88 IN 39.14
WTR YR 1974 TOTAL 4,738.87 MEAN 13.0 MAX 98 MIN .66 CFSM 2.36 IN 31.94

PEAK DISCHARGE (BASE, 60 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-18	0015	3.71	133	2-20	1400	3.07	72
12-22	0330	3.55	116	3-17	1515	3.10	74
12-27	1500	2.98	64	3-22	0315	3.55	116
1-22	1415	3.00	66				

Reservoirs in Thames River basin

01123350 **EAST BRIMFIELD LAKE** on Quinebaug River, 0.7 mi (1.1 km) southwest of Fiskdale, Mass., 1.2 mi (1.9 km) east of East Brimfield, completed in 1960, used for flood control, conservation, and recreation, has usable capacity of 1,400,000,000 ft^3 (39,600,000 m^3). Records furnished by Corps of Engineers.

01123550 **WESTVILLE LAKE** on Quinebaug River, 1.3 mi (2.1 km) west of Southbridge, Mass., completed in 1962, used for flood control and recreation, has usable capacity of 484,000,000 ft^3 (13,700,000 m^3). Records furnished by Corps of Engineers.

01124300 **HODGES VILLAGE RESERVOIR** on French River at Hodges Village, Mass., 0.8 mi (1.3 km) west of Oxford, completed in 1960 for flood control, has usable capacity of 577,000,000 ft^3 (16,300,000 m^3). Records furnished by Corps of Engineers.

01124400 **BUFFUMVILLE LAKE** on Little River at Buffumville, Mass., 2.2 mi (3.5 km) west of Oxford, completed in 1958, used for flood control and recreation, has usable capacity of 555,000,000 ft^3 (15,700,000 m^3). Records furnished by Corps of Engineers.

MONTHEND USABLE CONTENTS, IN MILLIONS OF CUBIC FEET, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	East Brimfield Lake	Westville Lake	Hodges Village Reservoir	Buffumville Lake
Sept. 30, 1973	107.7	5.2	1.4	64.5
Oct. 31	112.6	6.0	3.1	69.7
Nov. 30	109.3	5.4	1.3	67.1
Dec. 31	133.5	49.2	11.2	123.1
Jan. 31, 1974	131.2	9.9	8.7	80.1
Feb. 28	117.6	6.7	4.1	71.4
Mar. 31	117.6	6.8	2.8	71.4
Apr. 30	111.0	5.8	1.9	68.0
May 31	109.3	5.4	1.6	66.2
June 30	104.4	4.8	1.2	64.5
July 31	102.7	4.6	.6	61.0
Aug. 31	104.4	4.7	.5	61.9
Sept. 30	124.4	9.9	9.1	79.1

01127880 BIG BROOK NEAR PITTSBURG, N.H.

LOCATION.--Lat 45°08'06", long 71°12'23", Coos County, on left bank 10 ft (3 m) downstream from culvert on U. S. Highway 3, 0.3 mi (0.5 km) upstream from mouth, and 11 mi (18 km) northeast of Pittsburg.

DRAINAGE AREA.--6.36 mi² (16.47 km²).

PERIOD OF RECORD.--December 1963 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 1,680 ft (512 m) from topographic map.

AVERAGE DISCHARGE.--10 years (1964-74), 15.1 ft³/s (0.428 m³/s), 32.24 in/yr (819 mm/yr).

EXTREMES.--Current year: Maximum discharge, 377 ft³/s (10.7 m³/s) Apr. 29 (gage height, 4.30 ft or 1.311 m), from rating curve extended above 190 ft³/s (5.38 m³/s); minimum, 1.1 ft³/s (0.031 m³/s) Aug. 16, 17.
Period of record: Maximum discharge, 441 ft³/s (12.5 m³/s) May 3, 1967 (gage height, 3.61 ft or 1.100 m), from rating curve extended above 110 ft³/s (3.12 m³/s); maximum gage height, 5.02 ft (1.530 m) Dec. 27, 1969 (ice jam); minimum discharge, 1.1 ft³/s (0.031 m³/s) Aug. 16, 17, 1974, but may have been lower during periods of ice effect in some years; minimum daily, 1.2 ft³/s (0.034 m³/s) Aug. 16, 1974.

REMARKS.--Records good except those for winter period, which are fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.8	12	22	12	4.9	3.5	5.0	235	30	15	5.3	1.8
2	5.6	40	17	11	4.5	3.2	5.0	104	22	11	4.4	1.3
3	16	32	16	10	4.2	3.0	8.2	59	18	7.8	3.7	3.4
4	88	21	15	9.0	3.8	3.5	43	81	16	26	3.7	7.5
5	79	15	22	8.0	3.4	20	105	53	13	44	4.2	4.4
6	94	14	117	7.5	3.1	50	79	42	14	27	3.2	2.7
7	38	13	52	7.0	3.0	45	39	42	12	18	2.5	2.1
8	25	11	29	6.8	2.9	30	24	37	9.4	14	2.1	1.8
9	19	11	24	6.6	2.8	16	24	32	8.2	23	2.1	1.5
10	16	11	26	6.4	2.7	12	20	46	11	80	1.9	1.5
11	14	9.3	22	6.1	2.6	9.5	14	67	22	35	1.6	1.5
12	12	8.9	18	5.8	2.6	8.5	12	48	13	22	1.3	1.5
13	11	8.4	16	5.5	2.5	7.5	12	96	9.8	16	1.3	1.6
14	11	11	22	5.2	2.4	6.5	13	66	8.2	13	1.5	2.3
15	10	22	28	4.8	2.4	5.6	55	62	7.5	10	1.5	1.8
16	9.2	41	20	4.5	2.3	5.0	43	58	6.4	8.2	1.2	1.8
17	8.8	29	19	4.2	2.2	14	30	42	6.4	6.7	1.9	1.5
18	8.1	20	18	3.9	2.2	12	34	36	8.2	5.7	6.4	2.3
19	7.5	16	17	3.6	2.1	9.0	32	28	7.1	13	6.4	1.8
20	7.1	14	17	3.3	2.0	7.7	31	22	7.5	23	3.4	2.3
21	7.6	13	150	4.2	2.0	6.5	37	19	6.7	13	2.3	5.3
22	6.9	12	210	4.2	2.4	5.5	90	19	7.5	8.9	1.8	8.2
23	6.5	12	110	7.0	9.0	5.0	242	89	7.1	7.1	1.5	5.3
24	6.3	14	50	5.0	20	6.0	184	90	5.3	5.7	2.9	3.4
25	6.1	29	35	4.0	12	7.0	65	63	4.4	5.0	3.2	2.9
26	5.8	24	90	3.7	6.0	6.0	45	57	6.7	4.7	1.8	3.2
27	5.5	18	65	8.9	4.5	5.5	38	41	15	4.2	2.1	3.2
28	4.9	23	30	9.8	4.0	4.5	66	32	9.4	6.0	2.7	2.9
29	4.9	40	22	7.5	------	3.8	262	25	6.7	6.7	1.9	6.4
30	4.7	29	17	6.4	------	4.2	211	22	7.1	5.3	2.3	13
31	4.9	------	14	5.7	------	4.5	------	20	------	5.0	2.1	------
TOTAL	549.2	573.6	1,330	197.6	118.5	330.0	1,868.2	1,733	325.6	490.0	84.2	100.2
MEAN	17.7	19.1	42.9	6.37	4.23	10.6	62.3	55.9	10.9	15.8	2.72	3.34
MAX	94	41	210	12	20	50	262	235	30	80	6.4	13
MIN	4.7	8.4	14	3.3	2.0	3.0	5.0	19	4.4	4.2	1.2	1.3
CFSM	2.78	3.00	6.75	1.00	.67	1.67	9.80	8.79	1.71	2.48	.43	.53
IN.	3.21	3.36	7.78	1.16	.69	1.93	10.93	10.14	1.90	2.87	.49	.59

CAL YR 1973 TOTAL 7,401.8 MEAN 20.3 MAX 212 MIN 1.4 CFSM 3.19 IN 43.29
WTR YR 1974 TOTAL 7,700.1 MEAN 21.1 MAX 262 MIN 1.2 CFSM 3.32 IN 45.04

PEAK DISCHARGE (BASE, 180 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-21	2145	4.03	317				
4-23	2030	3.90	290				
4-29	2215	4.30	377				
5-1	1100	4.02	315				

01128500 CONNECTICUT RIVER AT FIRST CONNECTICUT LAKE, NEAR PITTSBURG, N.H.

LOCATION.--Lat 45°05'14", long 71°17'34", Coos County, on right bank 0.2 mi (0.3 km) downstream from dam at First Connecticut Lake and 6 mi (10 km) northeast of Pittsburg, and at mile 392.0 (kilometre 630.7).

DRAINAGE AREA.--83.0 mi² (215.0 km²).

PERIOD OF RECORD.--April 1917 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 1,560 ft (475 m) from topographic map. Prior to Jan. 1, 1918, discharge computed from flow through gates at dam 0.2 mi (0.3 km) upstream. Jan. 1 to July 28, 1918, nonrecording gage at present site and datum.

AVERAGE DISCHARGE.--57 years, 196 ft³/s (5.551 m³/s), 32.07 in/yr (815 mm/yr), adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 1,520 ft³/s (43.0 m³/s) May 14 (gage height, 4.16 ft or 1.268 m); minimum daily, 6.7 ft³/s (0.19 m³/s) Mar. 15, 16.

Period of record: Maximum discharge, 7,200 ft³/s (204 m³/s) June 16, 1943 (gage height, 6.25 ft or 1.905 m), from rating curve extended above 1,900 ft³/s (53.8 m³/s) on basis of computation of flow over dam at gage height 6.12 ft (1.865 m); maximum gage height, 6.35 ft (1.935 m) May 5, 1925 (backwater from logging operations); minimum daily discharge, 3.1 ft³/s (0.088 m³/s) Mar. 17, 18, 1929.

REMARKS.--Records good. Flow completely regulated by First Connecticut and Second Connecticut Lakes (see p. 214).

REVISIONS (WATER YEARS).--WSP 756: Drainage area. WSP 1001: 1931-39. WSP 1231: 1921-23(M), 1925-26.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	220	220	108	322	535	409	7.3	16	468	53	220	110
2	220	220	108	321	535	405	7.3	322	327	53	220	110
3	220	224	108	321	533	402	7.3	538	328	53	220	110
4	220	224	108	320	528	421	8.0	862	328	53	220	110
5	220	224	108	317	527	340	8.0	951	328	53	209	110
6	224	224	110	316	523	163	8.0	950	327	55	206	110
7	224	224	110	315	517	163	8.0	710	326	110	209	110
8	224	224	110	314	619	163	8.0	518	326	220	209	110
9	344	224	110	449	701	163	8.0	519	325	271	157	110
10	429	224	110	544	694	163	8.0	519	22	274	115	125
11	428	220	110	538	684	163	8.0	520	151	370	115	148
12	427	220	134	536	677	163	8.0	523	151	567	115	149
13	425	220	151	534	690	160	8.0	727	151	566	115	148
14	426	220	151	529	693	96	8.0	990	151	559	115	149
15	460	220	154	525	822	6.7	9.4	963	148	557	115	148
16	541	220	154	524	943	6.7	8.7	963	148	553	115	192
17	537	220	154	523	926	7.3	8.7	966	101	548	115	272
18	534	224	154	519	913	7.3	8.7	939	53	370	115	271
19	530	224	154	514	944	7.3	8.7	934	53	224	115	271
20	525	166	154	511	949	7.3	8.7	723	53	220	115	271
21	522	108	157	517	959	7.3	8.7	521	53	224	115	270
22	517	108	157	520	490	7.3	9.4	521	53	220	115	269
23	512	106	160	518	151	7.3	14	523	53	220	115	267
24	509	106	160	516	151	7.3	12	203	53	220	115	267
25	506	106	160	513	282	7.3	10	92	53	220	115	267
26	336	106	166	508	422	7.3	10	448	53	220	113	322
27	224	106	172	503	416	7.3	10	576	53	220	113	360
28	224	108	216	526	413	7.3	10	724	53	220	113	360
29	224	108	324	539	------	7.3	14	819	53	220	139	359
30	224	108	324	536	------	7.3	13	701	53	220	110	359
31	220	------	324	532	------	7.3	------	628	------	220	110	------
TOTAL	11,396	5,456	4,880	14,520	17,233	3,496.9	273.9	19,849	4,997	8,169	4,408	6,232
MEAN	368	182	157	468	615	113	9.13	640	167	264	142	208
MAX	541	224	324	544	959	421	14	990	468	567	220	360
MIN	220	106	108	314	151	6.7	7.3	16	53	53	110	110
MEAN†	186	250	425	83.0	40.8	164	818	741	145	257	56.1	68.3
CFSM†	2.24	3.01	5.12	1.00	.49	1.98	9.86	8.93	1.75	3.10	.68	.82
IN.†	2.58	3.36	5.90	1.15	.51	2.27	10.99	10.29	1.95	3.57	.78	.92

CAL YR 1973 TOTAL 78,930.2 MEAN 216 MAX 546 MIN 6.1 MEAN† 244 CFSM† 2.94 IN† 39.94
WTR YR 1974 TOTAL 100,910.8 MEAN 276 MAX 990 MIN 6.7 MEAN† 271 CFSM† 3.27 IN† 44.30

† Adjusted for change in contents in First Connecticut and Second Connecticut Lakes.

01129200 CONNECTICUT RIVER BELOW INDIAN STREAM, NEAR PITTSBURG, N.H.

LOCATION.--Lat 45°02'25", long 71°26'37", Coos County, on right bank 1,200 ft (350 m) downstream from Indian Stream, 2.5 mi (4.0 km) west of Pittsburg, and at mile 376.5 (kilometre 605.8).

DRAINAGE AREA.--254 mi^2 (658 km^2).

PERIOD OF RECORD.--October 1956 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 1,150 ft (351 m) from topographic map.

AVERAGE DISCHARGE.--18 years, 566 ft^3/s (16.03 m^3/s) 30.26 in/yr (769 mm/yr), adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 3,520 ft^3/s (99.7 m^3/s) Apr. 22, 30 (gage height, 6.57 ft or 2.003 m); minimum daily, 80 ft^3/s (2.27 m^3/s) Nov. 13.
Period of record: Maximum discharge, 4,080 ft^3/s or 116 m^3/s Nov. 29, 1959 (gage height, 7.07 ft or 2.155 m), from rating curve extended above 2,600 ft^3/s (73.6 m^3/s); minimum daily, 30 ft^3/s (0.850 m^3/s) Aug. 6, 1965.

REMARKS.--Records excellent. Flow regulated by First Connecticut and Second Connecticut Lakes and Lake Francis 3.7 mi (6.0 km) upstream (see p. 214).

REVISIONS.--WRD Mass., N.H., R.I., Vt., 1973: 1958, 1960(M), 1969(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,270	565	467	523	1,140	897	202	2,080	1,270	349	616	198
2	1,260	858	405	559	1,110	882	153	1,460	788	332	578	195
3	1,300	851	381	648	1,110	876	596	728	734	278	559	201
4	1,180	755	377	648	1,100	879	1,440	1,630	715	386	553	224
5	728	675	415	642	1,090	849	1,110	1,950	689	837	547	227
6	989	635	952	635	1,080	642	675	2,220	688	622	541	213
7	450	616	603	642	1,090	768	456	2,400	661	456	523	204
8	708	603	340	609	1,330	775	381	2,400	622	584	523	200
9	1,160	596	311	910	1,570	688	340	1,850	616	844	363	199
10	1,350	590	273	1,180	1,580	591	261	780	535	1,420	202	241
11	1,320	578	253	1,180	1,580	505	238	1,360	467	1,170	199	353
12	1,310	261	323	1,170	1,560	460	249	1,170	456	1,340	199	348
13	1,230	80	420	1,180	1,560	440	512	1,490	420	1,240	199	345
14	1,000	246	461	1,190	1,570	419	1,160	1,810	410	1,210	209	347
15	1,000	721	584	1,170	1,660	299	795	2,020	400	1,160	216	346
16	1,000	923	523	928	1,930	150	728	1,970	391	1,140	216	350
17	975	823	440	655	1,930	123	708	1,860	319	1,110	220	368
18	959	721	440	830	1,930	242	635	1,840	286	967	253	372
19	955	535	430	1,430	1,920	367	609	1,770	282	837	246	380
20	960	354	415	1,550	1,910	190	781	1,420	265	1,020	216	375
21	978	327	688	1,560	1,910	145	1,850	986	286	755	206	393
22	974	336	1,620	1,570	1,110	135	3,250	978	367	688	202	489
23	956	358	989	1,580	400	125	2,910	1,450	315	603	195	452
24	951	386	708	1,310	456	120	2,240	1,350	273	584	192	417
25	952	559	560	1,080	695	120	1,160	1,350	246	584	238	400
26	758	571	578	1,090	946	120	741	1,760	242	571	216	472
27	553	445	655	1,100	928	120	578	1,940	349	571	202	550
28	547	495	851	1,180	910	125	802	2,140	315	559	206	542
29	547	721	809	1,210	------	310	2,350	2,250	261	823	203	552
30	547	578	675	1,170	------	372	2,990	1,930	253	642	202	620
31	559	------	578	1,150	------	367	------	1,590	------	603	200	------
TOTAL	29,426	16,762	17,524	32,279	37,105	13,101	30,900	52,432	13,921	24,285	9,440	10,573
MEAN	949	559	565	1,041	1,325	423	1,030	1,691	464	783	305	352
MAX	1,350	923	1,620	1,580	1,930	897	3,250	2,400	1,270	1,420	616	620
MIN	450	80	253	523	400	120	153	728	242	278	192	195
MEAN†	516	677	1,155	311	195	510	2,691	2,005	363	721	148	181
CFSM†	2.03	2.67	4.55	1.22	.77	2.01	10.6	7.89	1.43	2.84	.58	.71
IN.†	2.34	2.97	5.24	1.41	.80	2.32	11.82	9.10	1.59	3.27	.67	.80

CAL YR 1973 TOTAL 250,989 MEAN 688 MAX 2,310 MIN 56 MEAN† 733 CFSM† 2.89 IN† 39.18
WTR YR 1974 TOTAL 287,748 MEAN 788 MAX 3,250 MIN 80 MEAN† 792 CFSM† 3.12 IN† 42.35

† Adjusted for change in contents in First Connecticut and Second Connecticut Lakes and Lake Francis.

01129300 HALLS STREAM NEAR EAST HEREFORD, QUEBEC

(International gaging station)

LOCATION.--Lat 45°02'41", long 71°29'54", Compton County, on right bank opposite Alain's farm, 2.5 mi (4.0 km) downstream from East Hereford, and 3.7 mi (6.0 km) upstream from mouth.

DRAINAGE AREA.--85 mi² (220 km²).

PERIOD OF RECORD.--October 1962 to current year in reports of Geological Survey. October 1948 to September 1962 available from Water Survey of Canada, Department of the Environment.

GAGE.--Water-stage recorder. Altitude of gage is 1,090 ft (332 m) from topographic map. Prior to Dec. 13, 1962, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--26 years, 170 ft³/s (4.814 m³/s), 27.16 in/yr (690 mm/yr).

EXTREMES.--Current year: Maximum discharge, 3,530 ft³/s (100 m³/s) Dec. 21 (gage height, 11.70 ft or 3.566 m); minimum daily, 15 ft³/s (0.42 m³/s) Aug. 16, Sept. 9.

Period of record: Maximum discharge, 4,500 ft³/s (127 m³/s) June 30, 1973 (gage height, 13.07 ft or 3.984 m); minimum daily, 4 ft³/s (0.11 m³/s) Sept. 10, 1960.

Flood in June 1943 reached a discharge of 21,000 ft³/s (595 m³/s), by slope-area method at site 0.5 mi (0.8 km) downstream.

REMARKS.--Records good except those for winter period, which are fair.

COOPERATION.--This station is maintained by Canada under agreement with the United States.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	53	52	241	188	155	98	62	1.470	299	177	89	17
2	46	378	179	146	125	89	61	724	218	115	55	16
3	124	319	158	128	95	81	105	453	164	78	43	18
4	879	230	163	117	71	91	1.120	822	169	387	41	49
5	553	150	282	107	67	420	2.100	473	131	824	38	42
6	803	114	994	98	63	650	1.270	330	117	552	34	31
7	315	98	465	96	61	745	627	348	102	269	29	24
8	216	92	262	88	65	720	414	371	81	187	27	19
9	165	89	203	91	55	365	263	283	67	448	25	15
10	134	80	277	81	50	240	229	409	76	1.460	22	16
11	113	72	230	75	44	180	211	557	118	423	20	18
12	99	71	163	71	40	155	192	354	100	252	18	16
13	88	71	109	70	38	135	313	729	70	170	17	16
14	87	127	226	69	42	110	642	425	56	125	17	19
15	85	250	480	61	50	92	1.880	304	49	101	16	16
16	78	489	235	55	46	81	945	261	43	86	15	16
17	71	302	125	57	35	92	749	236	41	69	24	16
18	67	208	151	60	32	145	867	218	168	59	106	21
19	62	157	130	64	31	145	705	174	96	214	48	24
20	59	139	137	51	28	110	663	144	126	360	32	24
21	69	114	1.380	44	25	92	741	127	108	152	26	98
22	61	128	1.610	52	27	84	1.320	132	218	114	20	187
23	55	194	627	65	230	85	2.900	1.090	131	80	18	80
24	51	207	335	80	320	84	2.170	1.040	83	67	22	52
25	47	403	235	81	200	92	861	657	66	69	46	43
26	44	280	378	69	180	105	655	722	76	64	29	40
27	43	198	847	135	135	84	596	463	247	53	21	40
28	38	402	738	275	115	73	896	334	120	66	25	34
29	36	585	428	185	------	69	2.340	273	78	107	22	83
30	35	330	315	125	------	64	1.990	251	79	64	22	157
31	34	------	220	120	------	63	------	212	------	76	21	------
TOTAL	4.610	6.329	12.323	3.004	2.425	5.639	27.887	14.386	3.497	7.268	988	1.247
MEAN	149	211	398	96.9	86.6	182	930	464	117	234	31.9	41.6
MAX	879	585	1.610	275	320	745	2.900	1.470	299	1.460	106	187
MIN	34	52	109	44	25	63	61	127	41	53	15	15
CFSM	1.75	2.48	4.68	1.14	1.02	2.14	10.9	5.46	1.38	2.75	.38	.49
IN.	2.02	2.77	5.39	1.31	1.06	2.47	12.20	6.30	1.53	3.18	.43	.55

CAL YR 1973 TOTAL 79.688.9 MEAN 218 MAX 1.800 MIN 7.2 CFSM 2.56 IN 34.88
WTR YR 1974 TOTAL 89.603.0 MEAN 245 MAX 2.900 MIN 15 CFSM 2.88 IN 39.21

01129500 CONNECTICUT RIVER AT NORTH STRATFORD, N.H.

LOCATION.--Lat 44°44'56", long 71°37'50", Coos County, on left bank at North Stratford, 400 ft (100 m) downstream from Nulhegan River, and at mile 344.5 (kilometre 554.3).

DRAINAGE AREA.--799 mi^2 (2,069 km^2).

PERIOD OF RECORD.--August 1930 to current year.

GAGE.--Water-stage recorder. Datum of gage is 880.17 ft (268.276 m) above mean sea level.

AVERAGE DISCHARGE.--44 years, 1,575 ft^3/s (44.60 m^3/s), 26.77 in/yr (680 mm/yr), adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 18,700 ft^3/s (530 m^3/s) Apr. 24 (gage height, 11.73 ft or 3.575 m); minimum daily, 307 ft^3/s (8.69 m^3/s) Aug. 17.

Period of record: Maximum discharge, 28,700 ft^3/s (813 m^3/s) June 16, 1943 (gage height, 14.67 ft or 4.471 m) from rating curve extended above 15,000 ft^3/s (425 m^3/s); maximum gage height, 16.66 ft (5.078 m) Mar. 13, 1936 (ice jam); minimum daily discharge, 108 ft^3/s (3.06 m^3/s) Sept. 29, 1960.

REMARKS.--Records good except those for winter period, which are fair. Flow regulated by powerplants and by First Connecticut and Second Connecticut Lakes and Lake Francis (see p. 214) 36 miles (58 km) upstream.

REVISIONS (WATER YEARS).--WSP 781: 1934(M). WSP 891: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,660	1,160	1,960	2,180	2,100	1,500	920	12,400	3,360	1,000	1,180	371
2	1,620	2,890	1,540	1,800	1,900	1,500	721	9,040	2,490	1,080	993	338
3	2,020	2,900	1,380	1,650	1,650	1,400	1,050	4,900	2,060	807	858	369
4	4,970	2,390	1,400	1,550	1,500	1,600	3,220	5,040	2,130	1,390	804	764
5	3,710	1,830	1,570	1,400	1,400	3,000	8,780	5,370	1,830	4,060	845	674
6	5,180	1,530	4,220	1,350	1,350	4,000	8,610	4,580	1,620	2,920	817	504
7	3,000	1,360	3,740	1,350	1,600	4,500	5,170	4,780	1,500	1,790	752	426
8	1,930	1,280	2,170	1,500	1,700	4,200	3,480	4,900	1,360	1,420	715	386
9	2,040	1,240	1,640	1,550	1,700	3,200	2,340	4,450	1,250	1,600	697	360
10	2,230	1,170	1,870	1,550	1,700	2,300	1,820	3,110	1,200	5,470	536	335
11	2,110	1,130	1,780	1,750	1,700	1,800	1,650	4,820	1,360	4,190	388	416
12	2,020	1,070	1,380	1,700	1,750	1,500	1,520	4,630	1,290	2,760	365	488
13	1,950	715	1,070	1,650	1,800	1,300	1,810	6,980	1,040	2,230	325	476
14	1,750	661	1,740	1,600	1,800	1,300	2,470	6,040	924	1,920	323	484
15	1,670	1,660	3,170	1,500	2,000	1,200	8,410	4,930	897	1,750	367	480
16	1,590	3,890	2,000	1,250	1,900	900	7,670	4,480	820	1,640	323	464
17	1,560	3,320	1,150	1,400	2,000	1,200	4,740	3,970	827	1,530	307	469
18	1,520	2,310	1,050	1,750	2,050	1,600	5,480	3,790	1,270	1,450	548	565
19	1,470	1,810	1,200	1,650	2,000	1,250	4,830	3,380	1,160	1,280	603	563
20	1,460	1,450	1,350	1,850	2,000	1,050	4,320	3,030	930	1,990	517	533
21	1,530	1,200	7,720	2,000	2,000	900	4,410	2,220	932	1,610	367	609
22	1,500	1,190	11,700	2,200	2,000	840	6,300	2,070	922	1,230	352	1,080
23	1,450	1,430	6,730	2,100	2,000	820	12,600	4,570	918	1,060	337	1,010
24	1,410	1,530	4,020	2,050	2,000	860	17,500	7,720	755	947	331	760
25	1,380	2,250	2,730	2,000	1,950	960	10,200	6,360	695	902	332	660
26	1,330	2,400	3,400	1,950	1,750	940	5,850	6,270	682	880	372	624
27	980	1,780	5,690	2,500	1,650	840	4,060	5,810	1,040	848	342	693
28	913	2,050	6,010	3,000	1,550	740	5,050	4,930	1,050	868	512	734
29	891	3,080	4,580	2,700	------	700	9,370	4,700	762	1,130	428	1,010
30	931	2,580	3,430	2,300	------	900	14,400	4,400	655	1,090	427	1,960
31	1,050	------	2,550	2,250	------	940	------	3,570	------	959	413	------
TOTAL	58,825	55,256	95,940	57,030	50,500	49,740	168,751	157,240	37,729	53,801	16,476	18,605
MEAN	1,898	1,842	3,095	1,840	1,804	1,605	5,625	5,072	1,258	1,736	531	620
MAX	5,180	3,890	11,700	3,000	2,100	4,500	17,500	12,400	3,360	5,470	1,180	1,960
MIN	891	661	1,050	1,250	1,350	700	721	2,070	655	807	307	335
MEAN†	1,465	1,960	3,685	1,109	674	1,692	7,286	5,386	1,156	1,673	375	449
CFSM†	1.83	2.45	4.61	1.39	.84	2.12	9.12	6.74	1.45	2.09	.47	.56
IN.†	2.11	2.74	5.32	1.60	.88	2.44	10.18	7.77	1.61	2.41	.54	.63

CAL YR 1973 TOTAL 819,997 MEAN 2,247 MAX 13,600 MIN 335 MEAN† 2,292 CFSM† 2.87 IN† 38.95
WTR YR 1974 TOTAL 819,893 MEAN 2,246 MAX 17,500 MIN 307 MEAN† 2,250 CFSM† 2.82 IN† 38.24

† Adjusted for change in contents in First Connecticut and Second Connecticut Lakes and Lake Francis.

01130000 UPPER AMMONOOSUC RIVER NEAR GROVETON, N.H.

LOCATION.--Lat 44°37'30", long 71°28'10", Coos County, on left bank 75 ft (23 m) upstream from highway bridge, 0.2 mi (0.3 km) downstream from Nash Stream, and 2.8 mi (4.5 km) northeast of Groveton.

DRAINAGE AREA.--232 mi² (601 km²).

PERIOD OF RECORD.--August 1940 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 920 ft (280 m) from topographic map.

AVERAGE DISCHARGE.--34 years, 478 ft³/s (13.54 m³/s), 27.98 in/yr (711 mm/yr), adjusted for diversion.

EXTREMES.--Current year: Maximum discharge, 5,460 ft³/s (155 m³/s) Apr. 24 (gage height, 7.11 ft or 2.167 m); minimum, 58 ft³/s (1.64 m³/s) Aug. 16, 17, 27.

Period of record: Maximum discharge, 24,100 ft³/s (683 m³/s) May 20, 1969 (gage height, 12.01 ft or 3.661 m in gage well, 12.85 ft or 3.917 m, from floodmarks), from rating curve extended above 5,600 ft³/s (159 m³/s) on basis of contracted-opening measurement of peak flow, caused by failure of dam on Nash Stream; minimum, 32 ft³/s (0.91 m³/s) Sept. 14, 1948.

Flood in March 1936 reached a stage of about 10.6 ft (3.23 m), from information by local residents.

REMARKS.--Records good except those for winter period, which are fair. Prior to May 21, 1969, some regulation by pond 9 mi (14 km) upstream on Nash Stream. Small diversion above station for municipal supply of Berlin.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	123	504	521	860	380	300	340	4.540	852	640	205	150
2	120	1.150	397	790	330	300	380	3.890	874	640	170	114
3	178	1.120	358	710	290	290	550	1.940	780	486	150	117
4	640	822	382	640	270	310	1.100	1.660	863	567	142	353
5	622	550	459	560	260	500	1.950	1.410	718	1.070	178	353
6	1.060	417	1.000	490	250	1.100	2.700	1.040	630	730	175	227
7	615	344	842	440	240	1.300	2.090	918	585	558	138	166
8	382	317	568	400	230	1.300	1.490	885	549	468	124	134
9	295	291	493	370	220	800	1.060	790	513	540	120	114
10	251	263	750	350	210	550	896	896	486	1.160	117	104
11	222	244	770	330	205	430	889	1.420	486	863	104	114
12	201	233	568	320	200	360	835	1.160	468	585	93	108
13	188	229	344	310	195	340	882	2.210	432	486	79	96
14	185	244	538	300	190	320	966	2.040	396	423	70	91
15	182	308	1.070	290	185	350	2.410	1.460	387	378	64	88
16	182	973	789	280	180	400	2.470	1.280	360	360	60	76
17	201	1.090	460	270	180	600	1.760	1.030	405	323	62	70
18	191	676	380	260	180	760	1.860	951	531	285	150	86
19	172	493	350	250	180	700	1.960	790	477	315	146	88
20	172	427	340	240	180	570	1.710	710	405	423	124	93
21	194	321	630	240	180	430	1.660	650	353	338	104	182
22	188	358	3.700	250	190	500	2.350	630	330	308	81	387
23	169	363	2.580	300	300	450	4.760	1.370	315	272	70	272
24	160	363	1.490	400	700	500	5.000	2.320	293	246	68	185
25	154	556	1.180	430	800	550	3.200	2.420	279	220	70	146
26	151	615	1.260	350	550	480	1.890	2.040	323	200	66	142
27	148	459	2.210	400	430	410	1.320	1.590	513	190	66	150
28	142	562	2.320	700	350	380	1.500	1.160	450	190	233	130
29	139	795	1.710	600	-------	360	2.620	940	353	233	185	170
30	211	670	1.300	450	-------	350	4.100	852	315	215	233	531
31	640	-------	1.040	400	-------	340	-------	780	-------	210	215	-------
TOTAL	8.478	15.757	30.799	12.980	8.055	16.330	56.698	45.772	14.713	13.922	3.854	5.017
MEAN	273	525	994	419	288	527	1.890	1.477	490	449	124	167
MAX	1.060	1.150	3.700	860	800	1.300	5.000	4.540	874	1.160	233	531
MIN	120	229	340	240	180	290	340	630	279	190	60	70
MEAN†	276	528	996	422	290	530	1.892	1.479	493	452	127	170
CFSM†	1.19	2.28	4.29	1.82	1.25	2.28	8.16	6.38	2.13	1.95	.55	.73
IN.†	1.37	2.54	4.95	2.10	1.30	2.63	9.10	7.35	2.37	2.25	.63	.82

CAL YR 1973 TOTAL 246.009 MEAN 674 MAX 4.460 MIN 91 MEAN† 677 CFSM† 2.92 IN† 39.62
WTR YR 1974 TOTAL 232.375 MEAN 637 MAX 5.000 MIN 60 MEAN† 639 CFSM† 2.75 IN† 37.42

† Adjusted for diversion for municipal supply of Berlin.
Records of diversion furnished by city of Berlin.

PEAK DISCHARGE (BASE, 2,900 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-22	1415	6.74	4,680				
4-24	0545	7.11	5,460				
5-1	1215	6.95	5,110				

01131500 CONNECTICUT RIVER NEAR DALTON, N.H.

LOCATION.--Lat 44°24'36", long 71°43'16", Coos County, on left bank 250 ft (76 m) upstream from highway bridge, 1,200 ft (350 m) downstream from dam of Gilman Paper Co., 1.2 mi (1.9 km) downstream from Dalton, and at mile 300.1 (kilometre 482.9).

DRAINAGE AREA.--1,514 mi² (3,921 km²).

PERIOD OF RECORD.--March 1927 to current year. Published as "at Waterford, Vt." 1927-35. Records published for both sites January to September 1935.

GAGE.--Water-stage recorder. Datum of gage is 799.89 ft (243.806 m) above mean sea level. Prior to Sept. 30, 1935, nonrecording gage at bridge 10.5 mi (16.9 km) downstream at mean sea level. Jan. 1, 1935, to June 29, 1937, nonrecording gage at bridge 250 ft (76 m) downstream at present datum. Since June 2, 1961, auxiliary water-stage recorder 10.8 mi (17.4 km) downstream from base gage. July 11, 1956, to June 1, 1961, auxiliary nonrecording gage read hourly at same site.

AVERAGE DISCHARGE.--47 years, 2,877 ft³/s (81.48 m³/s), 25.81 in/yr (656 mm/yr), adjusted to drainage area at present site and for storage.

EXTREMES.--Current year: Maximum discharge, 26,600 ft³/s (753 m³/s) Apr. 25 (gage height, 19.78 ft or 6.029 m); minimum daily, 484 ft³/s (13.7 m³/s) Aug. 14.
Period of record: Maximum discharge, 48,300 ft³/s (1,370 m³/s) Mar. 20, 1936 (gage height, 25.6 ft or 7.80 m); minimum daily, 115 ft³/s (3.26 m³/s) Oct. 3, 1937.

REMARKS.--Records good. Flow regulated by powerplants and by First Connecticut and Second Connecticut Lakes, Lake Francis (see p. 214), and other reservoirs. These reservoirs have a combined usable capacity of about 8,300,000,000 ft³ (240,000,000 m³).

REVISIONS (WATER YEARS).--WSP 891: Drainage area. WSP 1231: 1935. WSP 1301: 1928-35(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,400	2,330	4,210	5,230	4,100	2,740	1,700	20,100	6,230	2,110	1,500	910
2	2,190	4,060	3,430	4,200	3,800	2,570	1,780	21,500	6,150	2,850	1,650	826
3	2,190	5,890	2,790	3,400	3,200	2,610	1,860	17,300	4,710	2,280	1,430	705
4	3,440	5,380	2,650	3,200	2,700	2,420	3,630	11,500	4,280	2,030	1,260	1,620
5	5,720	4,060	2,670	2,900	2,400	2,960	8,780	9,770	4,040	5,740	1,220	1,900
6	6,430	3,230	4,300	2,600	2,100	6,180	13,700	8,620	3,580	5,930	1,220	1,670
7	6,430	2,720	6,670	2,500	1,900	7,620	13,900	7,600	3,020	4,280	1,300	1,150
8	4,300	2,430	4,980	2,500	2,000	8,620	11,300	7,490	2,760	3,150	1,070	931
9	3,230	2,380	3,630	2,200	1,950	8,120	7,080	7,190	2,530	2,710	1,040	805
10	3,020	2,260	3,550	2,000	2,100	6,350	4,310	6,570	2,420	4,240	1,050	731
11	3,000	2,060	4,000	2,300	2,200	4,550	4,540	7,260	2,320	7,130	861	731
12	2,860	1,780	3,520	2,700	2,350	3,500	4,100	7,980	2,370	5,330	634	712
13	2,720	1,670	2,720	2,650	2,350	2,860	3,900	9,320	2,280	4,060	614	854
14	2,600	1,580	2,520	2,550	2,350	2,400	4,510	11,500	1,910	3,390	484	854
15	2,470	1,640	4,150	2,500	2,300	2,250	9,800	10,200	1,800	2,960	562	833
16	2,360	4,220	4,400	2,600	2,150	2,150	13,400	8,480	1,660	2,920	620	777
17	2,390	7,220	3,000	2,500	2,200	2,190	11,000	7,370	1,640	2,610	715	744
18	2,390	5,530	2,150	2,100	2,500	2,980	10,100	6,760	1,900	2,270	1,210	791
19	2,330	3,930	2,000	1,800	2,600	3,190	9,910	6,120	2,200	2,180	903	1,070
20	2,190	3,260	2,400	1,900	2,500	2,750	8,940	5,340	2,060	2,310	1,220	861
21	2,190	2,740	3,890	2,400	2,550	2,340	8,080	4,660	1,520	2,790	784	1,290
22	2,190	2,630	13,600	2,800	2,600	1,890	8,660	3,920	1,360	2,430	510	2,200
23	2,090	2,550	17,000	3,200	3,590	1,800	13,800	5,150	1,500	1,940	757	2,440
24	1,900	2,650	14,100	3,600	4,420	1,870	21,500	10,400	1,450	1,580	647	1,740
25	2,000	2,830	8,860	3,700	3,870	1,950	25,800	12,700	1,280	1,430	582	1,360
26	1,880	4,080	6,240	3,400	3,350	1,950	20,300	12,400	1,280	1,260	595	1,310
27	1,860	3,790	7,540	3,200	3,150	1,880	12,500	11,700	1,460	1,260	523	1,130
28	1,430	3,600	10,400	4,640	2,900	1,760	8,920	9,930	1,820	1,280	1,020	1,310
29	1,540	4,560	11,200	5,750	------	1,610	10,100	8,280	1,790	1,500	1,220	1,420
30	1,460	5,110	9,620	5,010	------	1,460	14,500	7,480	1,440	1,780	1,200	2,730
31	2,300	------	7,170	4,210	------	1,600	------	6,740	------	1,580	1,270	------
TOTAL	85,500	102,170	179,360	96,240	76,180	99,120	292,400	291,330	74,760	89,310	29,671	36,405
MEAN	2,758	3,406	5,786	3,105	2,721	3,197	9,747	9,398	2,492	2,881	957	1,214
MAX	6,430	7,220	17,000	5,750	4,420	8,620	25,800	21,500	6,230	7,130	1,650	2,730
MIN	1,430	1,580	2,000	1,800	1,900	1,460	1,700	3,920	1,280	1,260	484	705
MEAN†	2,325	3,524	6,376	2,374	1,591	3,285	11,410	9,711	2,391	2,818	801	1,042
CFSM†	1.54	2.33	4.21	1.57	1.05	2.17	7.54	6.41	1.58	1.86	.53	.69
IN.†	1.77	2.60	4.86	1.81	1.09	2.50	8.41	7.40	1.76	2.15	.61	.77

CAL YR 1973 TOTAL 1,469,929 MEAN 4,027 MAX 20,300 MIN 738 MEAN† 4,073 CFSM† 2.69 IN† 36.52
WTR YR 1974 TOTAL 1,452,446 MEAN 3,979 MAX 25,800 MIN 484 MEAN† 3,983 CFSM† 2.63 IN† 35.72

† Adjusted for change in contents in First Connecticut and Second Connecticut Lakes and Lake Francis.

01133000 EAST BRANCH PASSUMPSIC RIVER NEAR EAST HAVEN, VT.

LOCATION.--Lat 44°38'02", long 71°53'53", Caledonia County, on right bank in Burke, 0.5 mi (0.8 km) upstream from Flower Brook, 2.1 mi (3.4 km) south of East Haven, and 8.4 mi (13.5 km) upstream from mouth.

DRAINAGE AREA.--53.8 mi² (139.3 km²).

PERIOD OF RECORD.--July 1939 to October 1945, October 1948 to current year. Prior to October 1951, published as Passumpsic River near East Haven.

GAGE.--Water-stage recorder. Datum of gage is 945.88 ft (288.304 m) above mean sea level (levels by Corps of Engineers).

AVERAGE DISCHARGE.--32 years, 104 ft³/s (2.945 m³/s), 26.25 in/yr (667 mm/yr).

EXTREMES.--Current year: Maximum discharge, 2,080 ft³/s (58.9 m³/s) Dec. 21 (gage height, 8.18 ft or 2.493 m), from rating curve extended above 900 ft³/s (25.5 m³/s) on basis of slope-area measurement at gage height 9.45 ft (2.880 m); minimum, 28 ft³/s (0.79 m³/s) Aug. 27.

Period of record: Maximum discharge, 4,450 ft³/s (126 m³/s) June 30, 1973 (gage height, 9.45 ft or 2.880 m, from floodmarks in gage well), from rating curve extended above 1,300 ft³/s (36.8 m³/s) on basis of slope-area measurement of peak flow; minimum, 13 ft³/s (0.37 m³/s) Sept. 1-5, 1953.

Flood in November 1927 reached a stage of about 12.6 ft (3.84 m), from information by local resident.

REMARKS.--Records good except those for winter period and period of no gage-height record, which are fair.

REVISIONS.--WSP 1141: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	56	130	138	165	90	80	86	752	253	120	129	37
2	52	250	116	130	84	76	88	485	203	93	76	31
3	80	216	115	120	80	71	147	361	172	73	58	54
4	330	149	109	110	78	73	340	452	156	158	56	111
5	230	117	158	100	76	198	569	326	141	155	81	67
6	300	103	411	96	74	265	466	265	127	100	70	47
7	180	95	209	92	72	277	259	290	115	69	50	40
8	125	93	151	86	80	316	221	261	104	65	45	36
9	100	90	135	88	70	197	173	223	98	83	44	33
10	92	85	180	90	72	151	162	273	97	316	37	31
11	86	83	152	92	75	115	146	335	122	132	36	34
12	84	82	125	90	72	95	142	258	100	90	35	32
13	82	83	117	88	70	86	167	612	85	67	34	31
14	80	91	321	84	66	80	237	361	78	55	34	31
15	80	123	276	86	62	76	791	271	75	163	33	30
16	84	279	170	82	60	75	427	228	66	169	32	27
17	110	179	143	80	58	200	335	220	115	85	37	27
18	96	134	149	78	58	140	420	206	344	65	71	28
19	85	118	140	74	56	100	394	177	141	107	42	33
20	80	111	140	76	54	90	367	160	115	128	42	60
21	100	104	1,090	82	52	84	391	153	97	79	36	101
22	86	121	627	110	70	80	593	153	84	63	35	120
23	82	136	324	130	300	80	986	556	77	55	32	66
24	79	128	214	120	230	105	907	460	64	54	31	50
25	76	225	165	110	191	105	507	454	69	52	30	43
26	76	159	220	100	135	90	404	500	71	47	29	47
27	74	135	537	140	110	82	355	392	105	46	31	47
28	70	203	419	210	81	74	474	286	74	113	46	43
29	69	221	274	130	------	70	728	253	59	148	37	240
30	81	162	221	115	------	76	762	237	55	105	53	220
31	102	------	190	94	------	80	------	215	------	116	46	------
TOTAL	3,307	4,205	7,736	3,248	2,576	3,687	12,044	10,175	3,462	3,171	1,448	1,797
MEAN	107	140	250	105	92.0	119	401	328	115	102	46.7	59.9
MAX	330	279	1,090	210	300	316	986	752	344	316	129	240
MIN	52	82	109	74	52	70	86	153	55	46	29	27
CFSM	1.99	2.60	4.65	1.95	1.71	2.21	7.45	6.10	2.14	1.90	.87	1.11
IN.	2.29	2.91	5.35	2.25	1.78	2.55	8.33	7.04	2.39	2.19	1.00	1.24

CAL YR 1973 TOTAL 67,588 MEAN 185 MAX 2,000 MIN 32 CFSM 3.44 IN 46.73
WTR YR 1974 TOTAL 56,856 MEAN 156 MAX 1,090 MIN 27 CFSM 2.90 IN 39.31

NOTE.--No gage-height record Oct. 1-24.

PEAK DISCHARGE (BASE, 800 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-21	1700	8.18	2,080	4-29	2400	6.22	1,090
4-15	0600	6.03	1,010	5-13	0600	5.68	872
4-23	0200	6.49	1,210	5-23	1900	5.57	830

01134500 MOOSE RIVER AT VICTORY, VT.

LOCATION.--Lat 44°30'42", long 71°50'13", Essex County, on right bank at Victory, 2.7 mi (4.3 km) upstream from highway bridge.

DRAINAGE AREA.--75.2 mi² (121.0 km²).

PERIOD OF RECORD.--January 1947 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,103.99 ft (336.496 m) above mean sea level (levels by Corps of Engineers).

AVERAGE DISCHARGE.--27 years, 140 ft³/s (3.965 m³/s), 25.28 in/yr (642 mm/yr).

EXTREMES.--Current year: Maximum discharge, 2,550 ft³/s (72.2 m³/s) Dec. 22 (gage height, 10.08 ft or 3.072 m); minimum, 7.0 ft³/s (0.20 m³/s) Aug. 17.
Period of record: Maximum discharge, 4,340 ft³/s (123 m³/s) July 1, 1973 (gage height, 12.04 ft or 3.670 m); minimum, 3.6 ft³/s (0.10 m³/s) Aug. 20, 1970.

REMARKS.--Records good except those for winter period, which are fair.

REVISIONS.--WSP 1381: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	60	159	205	215	120	78	81	1,130	277	145	39	37
2	54	432	159	185	105	71	81	975	293	129	28	26
3	105	406	148	160	95	64	100	519	201	78	22	24
4	441	291	142	150	85	70	206	459	167	166	21	139
5	364	183	165	140	78	150	619	430	142	444	25	115
6	471	143	441	135	71	350	1,470	295	121	228	23	57
7	336	120	455	130	64	500	832	276	106	110	20	37
8	185	111	232	125	62	580	492	280	86	84	17	28
9	142	106	182	115	60	535	309	227	78	78	17	22
10	119	95	215	105	62	294	217	238	72	374	17	19
11	104	90	203	96	63	176	190	402	100	267	14	19
12	96	86	157	91	61	130	175	322	99	118	12	18
13	88	85	125	88	61	105	176	647	70	80	11	17
14	85	93	157	85	64	94	224	715	58	61	9.5	16
15	85	129	414	82	59	86	875	429	63	64	8.8	15
16	90	336	320	78	54	80	1,130	313	53	105	8.1	13
17	132	520	170	76	52	107	610	246	60	58	8.1	12
18	109	284	135	72	51	202	655	238	141	43	59	16
19	92	173	130	70	50	100	718	192	97	73	37	23
20	86	150	130	72	51	135	613	162	64	102	70	19
21	111	125	630	78	48	105	578	140	53	62	34	62
22	96	139	2,250	115	54	97	737	130	51	44	20	174
23	85	162	800	130	300	90	1,930	281	56	35	15	84
24	78	149	400	120	250	91	1,760	732	45	30	14	47
25	71	242	300	105	180	110	1,060	676	38	27	22	34
26	68	257	350	95	140	97	660	610	37	25	15	37
27	66	174	800	120	110	89	473	613	64	23	12	43
28	61	290	830	260	86	84	486	466	60	24	91	34
29	58	390	615	240	------	68	777	322	42	55	58	125
30	72	299	417	160	------	79	1,220	278	36	39	77	340
31	174	------	295	130	------	74	------	246	------	50	61	------
TOTAL	4,184	6,219	11,972	3,823	2,536	4,971	19,454	12,989	2,830	3,221	885.5	1,652
MEAN	135	207	386	123	90.6	160	648	419	94.3	104	28.6	55.1
MAX	471	520	2,250	260	300	580	1,930	1,130	293	444	91	340
MIN	54	85	125	70	48	64	81	130	36	23	8.1	12
CFSM	1.80	2.75	5.13	1.64	1.20	2.13	8.62	5.57	1.25	1.38	.38	.73
IN.	2.07	3.08	5.92	1.89	1.25	2.46	9.62	6.43	1.40	1.59	.44	.82

CAL YR 1973 TOTAL 84,304.0 MEAN 231 MAX 3,250 MIN 21 CFSM 3.07 IN 41.70
WTR YR 1974 TOTAL 74,736.5 MEAN 205 MAX 2,250 MIN 8.1 CFSM 2.73 IN 36.97

PEAK DISCHARGE (BASE, 1,000 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-22	0400	10.08	2,550				
4-6	0800	8.88	1,710				
4-15	2300	8.77	1,640				
4-23	1100	9.67	2,250				
4-30	0900	8.40	1,420				

01134800 KIRBY BROOK AT CONCORD, VT.

LOCATION.--Lat 44°26'31", long 71°52'45", Essex County, on right bank 30 ft (9 m) downstream from culvert on U.S. Highway 2, 700 ft (200 m) upstream from mouth, and 1 mi (2 km) north of Concord.

DRAINAGE AREA.--8.05 mi² (20.85 km²).

PERIOD OF RECORD.--June 1963 to September 1974 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 920 ft (280 m) from topographic map.

AVERAGE DISCHARGE.--11 years, 11.9 ft³/s (0.337 m³/s), 20.08 in/yr (510 mm/yr).

EXTREMES.--Current year: Maximum discharge, 620 ft³/s (17.6 m³/s) Dec. 21 (gage height, 5.01 ft or 1.527 m), from rating curve extended above 87 ft³/s (2.46 m³/s) on basis of measurement of flow through culvert at gage height 6.35 ft (1.935 m); minimum, 0.59 ft³/s (0.017 m³/s) Aug. 17.

Period of record: Maximum discharge, 1,600 ft³/s (45.3 m³/s) June 30, 1973 (gage height, 6.35 ft or 1.935 m, from peak-stage indicator), from rating curve extended above 87 ft³/s (2.46 m³/s) on basis of measurement of peak flow through culvert; maximum gage height, 7.21 ft (2.198 m) Dec. 9, 1970 (backwater from ice); no flow Aug. 19, 1970.

REMARKS.--Records good except those for winter period, which are fair. Recording rain gage at station since April 1964 (no winter records).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.0	20	17	15	12	6.2	7.0	98	31	44	3.6	3.2
2	3.6	21	12	13	10	5.5	7.0	46	20	12	2.8	3.1
3	16	25	13	12	9.0	5.0	13	32	16	8.0	2.3	6.4
4	22	14	13	11	8.2	5.2	60	50	14	35	2.4	16
5	25	10	25	10	7.6	15	135	29	11	25	2.9	6.6
6	22	8.7	50	9.5	6.8	40	96	23	9.2	14	2.2	4.7
7	13	7.8	23	9.2	6.2	60	46	30	8.4	8.8	1.8	4.1
8	9.6	7.7	14	8.8	5.7	45	42	22	7.2	11	1.5	3.8
9	8.0	7.4	15	8.2	5.4	26	24	19	6.3	8.8	1.4	3.1
10	7.1	6.2	22	7.5	5.2	17	24	31	5.8	14	1.4	3.0
11	6.4	6.1	16	6.8	4.9	11	21	31	10	7.6	1.1	3.2
12	5.8	6.1	11	6.5	4.7	9.0	20	25	6.9	5.6	.98	3.0
13	5.6	6.1	9.3	6.2	4.7	8.0	30	94	7.9	4.5	.81	2.8
14	5.4	6.4	54	6.0	4.8	7.2	62	39	7.4	3.8	.78	3.2
15	5.1	13	39	5.8	4.7	6.6	154	26	6.9	6.4	.72	2.7
16	5.9	58	19	5.5	4.3	6.2	69	20	4.8	6.0	.63	2.6
17	7.3	23	15	5.2	4.3	10	70	20	6.7	3.8	2.7	2.4
18	5.9	16	10	5.0	4.1	20	84	17	18	3.3	6.0	4.8
19	5.3	11	9.0	5.0	3.8	15	68	13	7.5	9.0	2.8	3.9
20	5.4	11	11	5.2	3.9	10	55	11	5.7	6.2	2.4	4.1
21	6.4	8.6	280	5.6	4.0	8.5	60	10	4.4	4.0	1.8	13
22	5.5	13	120	10	4.6	7.6	87	9.8	4.4	3.3	1.5	16
23	5.0	13	55	9.0	35	7.0	129	73	4.2	2.8	1.5	5.5
24	4.8	11	30	8.0	21	6.6	155	58	3.5	2.5	1.6	3.8
25	4.5	26	22	7.0	15	8.0	81	75	5.1	2.2	1.5	3.1
26	4.4	15	30	6.5	11	7.6	56	79	4.3	2.0	1.2	3.6
27	4.4	17	90	17	8.5	6.7	43	55	7.5	1.9	1.1	3.5
28	4.1	36	65	30	7.0	6.0	51	36	5.6	3.8	5.4	2.9
29	4.1	33	40	18	------	5.2	63	30	3.9	5.5	4.0	17
30	7.3	20	27	13	------	6.0	66	25	3.7	3.8	6.5	22
31	9.0	------	20	11	------	6.0	------	22	------	6.0	4.3	------
TOTAL	247.9	477.1	1,176.3	296.5	226.4	403.1	1,878.0	1,148.8	257.3	274.6	71.62	177.1
MEAN	8.00	15.9	37.9	9.56	8.09	13.0	62.6	37.1	8.58	8.86	2.31	5.90
MAX	25	58	280	30	35	60	155	98	31	44	6.5	22
MIN	3.6	6.1	9.0	5.0	3.8	5.0	7.0	9.8	3.5	1.9	.63	2.4
CFSM	.99	1.98	4.71	1.19	1.01	1.61	7.78	4.61	1.07	1.10	.29	.73
IN.	1.15	2.20	5.44	1.37	1.05	1.86	8.68	5.31	1.19	1.27	.33	.82

CAL YR 1973 TOTAL 7,157.00 MEAN 19.6 MAX 400 MIN 1.4 CFSM 2.43 IN 33.07
WTR YR 1974 TOTAL 6,634.72 MEAN 18.2 MAX 280 MIN .63 CFSM 2.26 IN 30.66

PEAK DISCHARGE (BASE, 150 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-21	1615	5.01	620	4-24	0545	4.15	280
4-5	1930	3.82	197	5-1	1000	3.71	175
4-15	0215	3.96	229	5-13	0330	3.79	191

NOTE.--No gage-height record Dec. 22 to Jan. 24.

01135000 MOOSE RIVER AT ST. JOHNSBURY, VT.

LOCATION.--Lat 44°25'22", long 72°00'02", Caledonia County, on left bank at St. Johnsbury, 0.5 mi (0.8 km) upstream from mouth.

DRAINAGE AREA.--128 mi^2 (332 km^2).

PERIOD OF RECORD.--August 1928 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 585 ft (178 m) from topographic map. Prior to Nov. 16, 1934, nonrecording gage at site 0.2 mi (0.3 km) upstream at different datum.

AVERAGE DISCHARGE.--46 years, 221 ft^3/s (6.259 m^3/s), 23.45 in/yr (596 mm/yr).

EXTREMES.--Current year: Maximum discharge, 5,140 ft^3/s (146 m^3/s) Dec. 22 (gage height, 4.44 ft or 1.353 m), from rating curve extended above 1,900 ft^3/s (53.8 m^3/s) on basis of slope-area measurement at gage height 4.47 ft (1.362 m); maximum gage height not determined, occurred during Jan. 18-23 (ice jam); minimum discharge, about 15 ft^3/s (0.42 m^3/s) about Aug. 17.

Period of record: Maximum discharge, 5,820 ft^3/s (165 m^3/s) May 5, 1972 (gage height, 4.23 ft or 1.289 m); maximum gage height, 8.3 ft (2.53 m) Apr. 30, 1929, from graph based on gage readings, site and datum then in use; minimum discharge, 6.2 ft^3/s (0.18 m^3/s) Sept. 17, 18, 1948, Aug. 27, 28, 1949.

REMARKS.--Records good October to December, fair thereafter.

REVISIONS (WATER YEARS).--WSP 1231: 1929-30, 1931-34(M). WSP 1381: Drainage area. WSP 1701: 1959.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	86	244	349	372	200	125	133	1,900	453	445	66	62
2	78	565	256	295	170	115	140	1,600	483	250	48	45
3	114	634	206	240	150	105	275	900	349	140	38	42
4	548	445	236	236	135	100	623	760	285	310	36	240
5	573	280	265	220	125	210	1,000	656	244	812	43	200
6	634	217	678	206	115	620	2,500	514	210	350	39	90
7	539	180	700	200	105	840	1,400	490	180	190	34	62
8	280	166	404	170	100	900	840	475	156	150	29	47
9	213	156	295	145	100	800	510	411	142	140	29	38
10	178	144	349	165	100	556	370	424	129	640	29	33
11	153	131	338	155	100	327	320	700	147	460	25	33
12	140	129	270	145	100	236	300	600	175	210	22	31
13	129	127	169	140	100	180	300	1,100	120	144	20	29
14	120	133	475	135	100	178	450	1,200	100	113	19	27
15	118	186	748	130	94	172	1,500	800	105	161	18	26
16	118	634	548	125	88	156	1,900	531	90	175	17	22
17	172	748	280	120	83	365	1,050	445	110	100	16	21
18	158	490	228	115	78	305	1,150	417	213	75	100	28
19	133	270	193	115	72	290	1,200	343	183	122	65	39
20	120	236	213	115	69	232	1,050	290	118	161	120	33
21	147	175	1,640	120	68	183	1,000	252	99	100	52	110
22	140	224	3,750	180	80	166	1,300	236	87	75	34	300
23	120	248	1,520	200	450	156	3,300	601	89	60	27	140
24	108	236	929	180	500	172	3,000	1,200	74	52	25	80
25	100	365	623	165	300	164	1,680	1,200	68	47	38	60
26	96	417	556	150	220	164	1,120	1,050	65	43	26	64
27	92	300	906	200	170	147	820	1,000	100	40	22	74
28	85	490	1,020	400	140	125	840	812	110	41	160	60
29	81	645	975	380	------	122	1,400	634	70	94	100	280
30	94	522	700	260	------	122	2,000	514	63	68	130	580
31	217	------	490	210	------	126	------	438	------	86	100	------
TOTAL	5,884	9,737	20,309	5,989	4,112	8,459	33,471	22,493	4,817	5,854	1,527	2,896
MEAN	190	325	655	193	147	273	1,116	726	161	189	49.3	96.5
MAX	634	748	3,750	400	500	900	3,300	1,900	483	812	160	580
MIN	78	127	169	115	68	100	133	236	63	40	16	21
CFSM	1.48	2.54	5.12	1.51	1.15	2.13	8.72	5.67	1.26	1.48	.39	.75
IN.	1.71	2.83	5.90	1.74	1.20	2.46	9.73	6.54	1.40	1.70	.44	.84

CAL YR 1973 TOTAL 140,522 MEAN 385 MAX 4,500 MIN 35 CFSM 3.01 IN 40.84
WTR YR 1974 TOTAL 125,548 MEAN 344 MAX 3,750 MIN 16 CFSM 2.69 IN 36.49

PEAK DISCHARGE (BASE, 1,700 ft^3/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-22	1130	4.44	5,140				
4-6	-	-	*2,900				
4-16	-	-	*2,700				
4-23	-	-	*3,800				
4-30	-	-	*2,400				

* About.

NOTE.--No gage-height record Jan. 18-23, Apr. 5-24, Apr. 27 to May 4, July 21 to Sept. 30.

01135500 PASSUMPSIC RIVER AT PASSUMPSIC, VT.

LOCATION.--Lat 44°21'56", long 72°02'23", Caledonia County, on right bank 0.7 mi (1.1 km) upstream from Water Andric, 1 mi (2 km) downstream from dam and village of Passumpsic, and 4.0 mi (6.4 km) upstream from mouth.

DRAINAGE AREA.--436 mi² (1,129 km²).

PERIOD OF RECORD.--October 1928 to current year. Monthly discharge only October 1928, published in WSP 1301.

GAGE.--Water-stage recorder. Altitude of gage is 490 ft (149 m) from topographic map.

AVERAGE DISCHARGE.--46 years, 728 ft³/s (20.62 m³/s), 22.68 in/yr (576 mm/yr).

EXTREMES.--Current year: Maximum discharge, 10,900 ft³/s (309 m³/s) Dec. 21 (gage height, 15.73 ft or 4.795 m); minimum daily, 141 ft³/s (3.99 m³/s) Sept. 15, 18.

Period of record: Maximum discharge, 18,200 ft³/s (515 m³/s) July 1, 1973 (gage height, 23.49 ft or 7.160 m), from rating curve extended above 14,000 ft³/s (396 m³/s) on basis of computation of flow over dam at gage height 21.23 ft (6.471 m); minimum daily, 13 ft³/s (0.37 m³/s) Sept. 12, 1948.

Maximum stage since at least 1780, about 31.5 ft (9.60 m) in November 1927, from information by local residents (discharge not determined).

REMARKS.--Records excellent except those for winter period, which are fair. Low flow regulated by powerplants above station. Records of suspended sediment loads for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 781: 1933(M). WSP 871: Drainage area. WSP 1231: 1929, 1930-31(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	388	722	947	1.300	740	660	680	5.490	1.800	1.200	555	261
2	363	1.660	759	1.050	670	600	643	4.300	1.570	851	431	241
3	471	1.570	673	990	600	520	1.280	2.670	1.240	643	344	241
4	2.270	1.110	752	930	540	540	2.890	3.060	1.080	1.360	313	694
5	1.520	798	835	900	490	1.500	4.490	2.430	959	2.250	374	564
6	2.160	661	2.220	830	440	2.100	4.550	1.880	857	1.220	363	375
7	1.280	585	1.680	820	410	2.300	2.760	1.930	776	765	314	274
8	872	556	1.040	790	450	2.500	2.470	1.860	673	948	275	240
9	714	545	870	730	430	1.900	1.630	1.540	645	761	263	234
10	634	504	1.260	660	400	1.500	1.270	1.650	616	1.650	256	216
11	578	471	1.070	600	420	1.200	1.150	2.400	671	1.260	225	209
12	541	483	880	580	400	1.000	1.150	1.850	697	736	237	217
13	500	451	567	560	390	880	1.440	4.130	580	588	201	200
14	498	494	1.570	540	390	830	2.070	3.140	535	484	205	167
15	539	625	2.300	520	350	700	6.280	2.140	533	640	185	141
16	505	2.000	1.260	500	350	680	4.560	1.680	471	957	179	203
17	654	1.640	861	480	320	1.900	3.010	1.500	898	575	178	198
18	584	1.090	1.250	460	320	1.550	3.680	1.440	2.380	458	402	141
19	512	748	1.100	450	340	1.000	3.490	1.220	1.070	605	350	242
20	462	712	1.150	470	310	840	2.990	1.060	717	755	359	223
21	543	610	6.350	500	330	740	2.950	985	640	547	324	349
22	511	702	7.270	740	350	670	3.680	925	578	447	259	759
23	476	828	3.320	820	2.000	710	6.970	2.700	565	374	181	484
24	440	768	2.130	740	1.500	890	8.280	3.930	495	337	166	335
25	423	1.160	1.700	680	1.200	920	5.430	3.500	491	354	194	257
26	391	1.120	1.950	600	1.000	780	3.540	3.630	462	316	213	265
27	409	854	3.550	800	820	690	2.720	3.270	637	287	190	302
28	390	1.380	3.840	1.500	680	620	3.070	2.380	610	283	310	261
29	367	1.570	2.790	1.100	------	500	4.120	1.970	459	528	358	823
30	374	1.220	2.000	850	------	600	5.440	1.740	428	813	353	1.650
31	631	------	1.530	800	------	582	------	1.590	------	810	364	------
TOTAL	21.000	27.637	59.474	23.290	16.640	32.402	98.683	73.990	24.133	23.802	8.921	10.766
MEAN	677	921	1.919	751	594	1.045	3.289	2.387	804	768	288	359
MAX	2.270	2.000	7.270	1.500	2.000	2.500	8.280	5.490	2.380	2.250	555	1.650
MIN	363	451	567	450	310	500	643	925	428	283	166	141
CFSM	1.55	2.11	4.40	1.72	1.36	2.40	7.54	5.47	1.84	1.76	.66	.82
IN.	1.79	2.36	5.07	1.99	1.42	2.76	8.42	6.31	2.06	2.03	.76	.92

CAL YR 1973 TOTAL 441.377 MEAN 1.209 MAX 13.700 MIN 197 CFSM 2.77 IN 37.66
WTR YR 1974 TOTAL 420.738 MEAN 1.153 MAX 8.280 MIN 141 CFSM 2.64 IN 35.90

PEAK DISCHARGE (BASE, 5,000 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-21	2115	15.73	10,900	4-24	1230	13.50	8,850
4-5	2130	9.81	5,530	5-1	1230	10.26	5,930
4-15	1200	11.43	6,990	5-24	0100	9.22	5,000

01137500 AMMONOOSUC RIVER AT BETHLEHEM JUNCTION, N.H.

LOCATION.--Lat 44°16'08", long 71°37'52", Grafton County, on left bank 0.2 mi (0.3 km) upstream from Pierce Bridge and Bethlehem Junction, 0.8 mi (1.3 km) upstream from unnamed tributary entering from left, 3 mi (5 km) east of Bethlehem, 3.4 mi (5.5 km) downstream from Little River, and at mile 35.0 (kilometre 56.3).

DRAINAGE AREA.--87.6 mi^2 (226.9 km^2).

PERIOD OF RECORD.--August 1939 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,180.74 ft (359.890 m) above mean sea level (levels by Corps of Engineers).

AVERAGE DISCHARGE.--35 years, 206 ft^3/s (5.834 m^3/s), 31.93 in/yr (811 mm/yr).

EXTREMES.--Current year: Maximum discharge, 8,410 ft^3/s (238 m^3/s) Dec. 21 (gage height, 10.69 ft or 3.258 m), from rating curve extended above 4,100 ft^3/s (116 m^3/s) on basis of slope-area measurement at gage height 12.09 ft (3.685 m); 44 ft^3/s (1.25 m^3/s) Oct. 29.

Period of record: Maximum discharge, 10,800 ft^3/s (306 m^3/s) Oct. 24, 1959 (gage height, 12.09 ft or 3.685 m), from rating curve extended above 4,100 ft^3/s (116 m^3/s) on basis of slope-area measurement of peak flow; minimum, 16 ft^3/s (0.45 m^3/s) Nov. 14, 1952 (caused by anchor ice upstream).

REMARKS.--Records excellent except those for winter period, which are fair. Records of suspended-sediment loads for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1701: 1951(M), 1953-54(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	49	360	147	240	140	110	126	1.370	503	116	94	90
2	47	592	118	185	110	107	117	617	394	107	84	76
3	58	329	117	170	115	96	195	407	288	98	77	106
4	94	222	126	170	105	125	1.040	551	249	166	104	393
5	95	166	176	155	100	1.000	2.140	371	225	353	151	227
6	177	137	676	145	96	585	1.010	301	211	205	99	139
7	98	119	319	150	94	487	400	282	192	148	81	111
8	78	111	211	120	90	520	328	267	173	137	74	96
9	69	105	202	110	88	244	234	240	161	132	73	85
10	64	95	662	110	84	199	215	349	155	244	69	81
11	61	90	334	105	82	157	196	458	153	179	63	103
12	59	89	235	105	80	136	180	401	141	138	59	88
13	57	87	170	100	80	110	214	1.270	128	117	55	83
14	57	90	773	95	79	126	380	572	121	105	53	81
15	56	134	794	95	73	120	1.320	617	129	175	52	74
16	59	518	336	93	73	108	530	517	112	180	49	67
17	62	306	320	90	73	700	353	459	293	120	70	63
18	57	192	600	88	72	358	436	409	352	102	231	80
19	54	145	262	86	70	210	404	301	210	291	95	73
20	54	131	252	82	73	169	328	252	168	330	72	68
21	56	112	4.810	82	72	122	340	227	172	195	61	102
22	54	135	1.900	120	90	144	815	214	148	162	55	312
23	52	147	800	170	550	136	1.830	654	135	134	53	186
24	52	134	600	160	276	195	1.790	678	121	167	64	139
25	50	184	400	140	186	219	613	569	115	130	82	113
26	49	166	550	120	150	153	463	563	160	113	59	111
27	48	133	800	240	120	134	359	498	200	106	53	103
28	46	178	594	350	115	122	553	366	157	114	71	94
29	45	243	417	220	------	112	1.010	337	124	173	88	294
30	391	182	335	165	------	111	1.140	305	116	115	241	520
31	362	------	262	150	------	119	------	270	------	108	136	------
TOTAL	2.610	5.632	18.298	4.411	3.336	7.234	19.059	14.692	5.806	4.960	2.668	4.158
MEAN	84.2	188	590	142	119	233	635	474	194	160	86.1	139
MAX	391	592	4.810	350	550	1.000	2.140	1.370	503	353	241	520
MIN	45	87	117	82	70	96	117	214	112	98	49	63
CFSM	.96	2.15	6.74	1.62	1.36	2.66	7.25	5.41	2.21	1.83	.98	1.59
IN.	1.11	2.39	7.77	1.87	1.42	3.07	8.09	6.24	2.47	2.11	1.13	1.77

CAL YR 1973 TOTAL 102.980 MEAN 282 MAX 5.280 MIN 37 CFSM 3.22 IN 43.73
WTR YR 1974 TOTAL 92.864 MEAN 254 MAX 4.810 MIN 45 CFSM 2.90 IN 39.44

PEAK DISCHARGE (BASE, 2,700 ft^3/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-21	1800	10.69	8,410				
4-5	2000	6.80	2,980				
4-24	0530	6.91	3,110				

01138000 AMMONOOSUC RIVER NEAR BATH, N.H.

LOCATION.--Lat 44°09'14", long 71°59'10", Grafton County, on left bank 0.4 mi (0.6 km) downstream from Wild Ammonoosuc River and 1.4 mi (2.3 km) southwest of Bath, and 3.3 mi (5.3 km) upstream from mouth.

DRAINAGE AREA.--395 mi^2 (1,023 km^2).

PERIOD OF RECORD.--September 1935 to current year.

GAGE.--Water-stage recorder. Datum of gage is 454.14 ft (138.422 m) above mean sea level (levels by Connecticut River Power Co.).

AVERAGE DISCHARGE.--39 years, 653 ft^3/s (18.49 m^3/s), 22.45 in/yr (570 mm/yr).

EXTREMES.--Current year: Maximum discharge, 20,800 ft^3/s (589 m^3/s) Dec. 21 (gage height, 15.32 ft or 4.670 m), from rating curve extended above 2,100 ft^3/s (59.5 m^3/s) on basis of slope-area measurement at gage height 17.55 ft (5.349 m); minimum daily, 147 ft^3/s (4.16 m^3/s) Oct. 2.

Period of record: Maximum discharge, 27,900 ft^3/s (790 m^3/s) Mar. 18, 1936 (gage height, 15.40 ft or 4.694 m), from rating curve extended above 13,000 ft^3/s (368 m^3/s) on basis of slope-area measurement at gage height 14.28 ft (4.353 m); maximum gage height, 17.55 ft (5.349 m) June 30, 1973; minimum daily discharge, 35 ft^3/s (0.99 m^3/s) Sept. 15, 1957.

REMARKS.--Records good except those for winter period, which are fair. Occasional diurnal fluctuation at low flow caused by small powerplants above station; greater fluctuation prior to 1968.

REVISIONS.--WSP 871: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	154	681	657	1,200	560	430	490	3,590	1,340	390	418	389
2	147	1,560	533	950	480	430	460	2,460	1,410	370	329	293
3	182	1,030	451	800	460	390	820	1,600	1,000	350	285	332
4	389	765	489	800	460	430	4,260	2,170	842	550	386	1,340
5	411	545	541	720	430	2,400	6,830	1,680	740	1,100	811	978
6	671	444	1,800	660	410	2,900	4,870	1,280	666	600	497	575
7	461	386	1,290	660	390	2,300	2,000	1,190	605	490	362	438
8	338	353	816	540	380	2,400	1,880	1,120	537	460	299	362
9	282	335	681	500	370	1,100	1,270	994	489	421	266	315
10	253	307	1,650	480	350	850	1,020	1,120	465	541	250	280
11	228	277	1,190	460	340	620	922	1,900	465	587	228	282
12	213	264	858	450	330	540	874	1,440	451	454	202	296
13	204	266	566	440	320	450	1,120	3,740	402	396	187	290
14	193	266	1,430	430	310	490	1,940	2,290	368	335	172	293
15	180	329	3,190	410	300	480	5,170	1,790	386	458	163	258
16	180	1,850	1,380	400	280	460	2,810	1,660	368	614	152	225
17	193	1,610	800	390	280	2,000	1,760	1,290	485	438	163	202
18	193	879	1,200	390	280	1,450	1,900	1,290	1,290	353	579	211
19	189	619	750	380	280	840	1,780	994	730	533	408	240
20	180	529	750	370	270	700	1,390	842	529	1,360	282	225
21	180	418	10,400	360	270	500	1,280	755	505	740	225	434
22	180	482	9,110	450	320	540	1,830	715	482	537	191	1,510
23	176	533	3,250	540	2,000	550	4,390	2,060	485	434	172	800
24	172	513	2,010	560	1,200	680	6,620	2,920	425	402	170	579
25	167	610	1,570	520	750	800	3,380	2,320	380	399	282	461
26	163	652	2,020	430	570	620	2,260	2,220	450	344	221	408
27	157	533	3,730	470	500	500	1,690	2,170	640	315	176	386
28	152	730	3,180	1,000	460	450	1,630	1,610	500	299	174	347
29	149	1,030	2,290	740	------	400	2,560	1,390	430	780	243	601
30	248	832	1,780	620	------	450	2,890	1,250	410	465	710	1,440
31	1,010	------	1,400	580	------	440	------	1,110	------	441	592	------
TOTAL	7,995	19,628	61,762	17,700	13,350	27,590	72,096	52,960	18,275	15,956	9,595	14,790
MEAN	258	654	1,992	571	477	890	2,403	1,708	609	515	310	493
MAX	1,010	1,850	10,400	1,200	2,000	2,900	6,830	3,740	1,410	1,360	811	1,510
MIN	147	264	451	360	270	390	460	715	368	299	152	202
CFSM	.65	1.66	5.04	1.45	1.21	2.25	6.08	4.32	1.54	1.30	.78	1.25
IN.	.75	1.85	5.82	1.67	1.26	2.60	6.79	4.99	1.72	1.50	.90	1.39

CAL YR 1973 TOTAL 353,769 MEAN 969 MAX 15,000 MIN 109 CFSM 2.45 IN 33.32
WTR YR 1974 TOTAL 331,697 MEAN 909 MAX 10,400 MIN 147 CFSM 2.30 IN 31.24

PEAK DISCHARGE (BASE, 6,500 ft^3/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-21	2230	15.32	20,800				
4-5	2330	9.72	8,300				
4-24	0915	9.87	8,570				

01138500 CONNECTICUT RIVER AT WELLS RIVER, VT.

LOCATION.--Lat 44°09'13", long 72°02'34", Orange County, on right bank at village of Wells River, 200 ft (61 m) downstream from bridge on U.S. Highway 302, 400 ft (100 m) upstream from Wells River, 1,200 ft (350 m) downstream from Ammonoosuc River, and at mile 266.0 (kilometre 428.0).

DRAINAGE AREA.--2,644 mi^2 (6,848 km^2).

PERIOD OF RECORD.--October 1949 to current year. October and November 1949 monthly discharge only, published in WSP 1301.

GAGE.--Water-stage recorder. Datum of gage is 399.75 ft (121.844 m) above mean sea level.

AVERAGE DISCHARGE.--25 years, 4,810 ft^3/s (136.2 m^3/s), 24.71 in/yr (628 mm/yr), adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 42,500 ft^3/s (1,200 m^3/s) Dec. 22 (gage height, 13.51 ft or 4.118 m; minimum daily, 608 ft^3/s (17.2 m^3/s) Aug. 11.

Period of record: Maximum discharge, 57,100 ft^3/s (1,620 m^3/s) July 1, 1973 (gage height, 17.35 ft or 5.288 m, from peak-stage indicator); minimum daily, 152 ft^3/s (4.30 m^3/s) Aug. 28, 1960.

REMARKS.--Records good except those for winter period, which are fair. Flow regulated by powerplants, by First Connecticut and Second Connecticut Lakes, Lake Francis, Moore and Comerford Reservoirs (see p. 214), and other reservoirs (combined usable capacity, about 14,800,000,000 ft^3 or 419,000,000 m^3).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3,540	5,230	7,630	9,080	7,600	4,800	4,940	27,800	11,100	4,510	3,390	1,000
2	3,620	6,740	7,410	7,970	7,600	4,210	3,490	26,800	7,710	5,150	4,280	986
3	3,760	6,270	6,020	7,300	6,500	2,720	5,070	22,700	8,680	4,210	2,270	2,640
4	5,610	5,390	6,570	6,570	6,800	5,640	11,000	18,700	7,490	2,300	1,340	4,260
5	6,800	4,740	7,340	6,340	7,500	9,480	21,400	15,700	6,800	10,400	4,190	4,120
6	9,240	6,270	8,360	4,200	7,000	14,700	23,600	13,900	7,300	11,300	3,430	2,810
7	8,210	4,910	7,300	5,360	6,300	14,600	18,500	12,400	7,260	6,240	2,060	2,030
8	7,080	4,350	6,630	7,080	7,560	17,100	17,700	12,400	3,280	6,300	2,890	1,180
9	5,590	4,370	6,340	5,800	5,000	13,800	13,900	11,800	2,480	6,700	2,000	1,790
10	5,870	3,280	8,560	4,300	2,800	11,400	11,800	12,300	5,610	7,560	801	2,860
11	5,900	2,200	8,130	5,400	5,400	7,670	7,860	13,100	6,910	11,200	608	2,090
12	6,180	2,080	7,670	2,900	6,200	7,370	7,370	13,300	5,120	9,720	1,700	3,150
13	4,560	2,940	4,840	2,400	5,700	7,120	7,370	18,100	3,890	4,540	1,500	2,530
14	1,890	2,820	6,340	5,200	5,800	7,160	9,080	18,500	3,490	990	1,400	1,870
15	4,160	3,470	10,500	4,700	6,200	7,160	20,400	16,200	2,330	4,990	1,260	882
16	3,620	8,840	8,480	4,600	4,000	6,080	21,600	13,900	2,170	6,370	1,350	1,750
17	4,370	12,300	7,710	4,800	1,700	8,640	18,900	12,300	4,260	5,360	808	1,400
18	3,960	7,010	7,900	5,000	4,400	6,980	16,600	12,300	7,860	4,030	1,160	1,360
19	4,640	5,840	5,170	3,000	5,100	7,520	15,100	8,250	6,940	4,660	2,940	1,500
20	3,730	5,360	4,640	2,600	4,500	7,260	15,900	7,160	6,150	3,800	2,980	1,220
21	1,420	6,240	16,600	4,800	5,200	7,010	14,700	7,520	5,500	2,280	2,400	1,040
22	3,070	4,810	35,900	5,600	5,300	6,530	15,700	7,450	3,280	4,160	2,010	3,490
23	4,320	4,090	25,600	7,000	8,000	5,280	24,800	9,240	1,620	4,320	2,910	3,580
24	4,690	5,020	20,600	6,800	6,000	3,490	31,200	18,200	3,560	3,560	910	3,390
25	4,740	5,150	14,300	6,000	6,200	6,370	29,100	20,000	2,930	4,050	913	3,620
26	3,820	6,300	13,400	5,100	6,000	6,630	25,600	19,400	2,600	2,910	1,430	3,180
27	3,320	6,700	16,100	5,600	5,400	5,670	19,500	19,400	2,720	2,330	1,580	3,150
28	1,210	8,090	19,100	8,000	4,500	5,610	15,800	16,500	2,410	1,130	2,450	1,900
29	4,000	7,660	18,300	7,000	------	5,450	17,500	14,100	1,470	3,470	2,400	2,040
30	6,370	7,820	15,500	3,500	------	4,140	22,800	13,000	1,090	3,760	2,600	5,360
31	5,590	------	12,000	6,200	------	2,640	------	12,400	------	4,420	1,660	------
TOTAL	144,880	166,290	350,940	170,200	160,260	230,230	488,280	464,820	144,010	156,720	63,620	72,178
MEAN	4,674	5,543	11,320	5,490	5,724	7,427	16,280	14,990	4,800	5,055	2,052	2,406
MAX	9,240	12,300	35,900	9,080	8,000	17,100	31,200	27,800	11,100	11,300	4,280	5,360
MIN	1,210	2,080	4,640	2,400	1,700	2,640	3,490	7,160	1,090	990	608	882
MEAN†	3,937	6,157	11,870	4,826	3,737	6,639	19,360	15,440	4,777	4,900	1,736	2,384
CFSM†	1.49	2.33	4.49	1.83	1.41	2.51	7.32	5.84	1.81	1.85	.66	.90
IN.†	1.72	2.60	5.18	2.11	1.47	2.90	8.17	6.73	2.02	2.14	.76	1.01

CAL YR 1973 TOTAL 2,654,608 MEAN 7,273 MAX 49,000 MIN 750 MEAN† 7,320 CFSM† 2.77 IN† 37.59
WTR YR 1974 TOTAL 2,612,428 MEAN 7,157 MAX 35,900 MIN 608 MEAN† 7,164 CFSM† 2.71 IN† 36.79

PEAK DISCHARGE (BASE, 23,000 ft^3/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-22	0330	13.15	42,500				
4-6	0130	9.31	27,800				
4-16	0030	8.54	24,500				
4-24	1200	10.65	32,800				
5-1	1800	9.81	29,700				

† Adjusted for change in contents in First Connecticut and Second Connecticut Lakes, Lake Francis, and Moore and Comerford Reservoirs.

01139000 WELLS RIVER AT WELLS RIVER, VT.

LOCATION.--Lat 44°09'03", long 72°03'55", Orange County, on right bank 800 ft (250 m) upstream from railroad bridge, 0.8 mi (1.3 km) west of village of Wells River, and 1.5 mi (2.4 km) upstream from mouth.

DRAINAGE AREA.--98.4 mi² (254.9 km²).

PERIOD OF RECORD.--August 1940 to current year.

GAGE.--Water-stage recorder. Datum of gage is 505.53 ft (154.086 m) above mean sea level (levels by Connecticut River Power Co.).

AVERAGE DISCHARGE.--34 years, 139 ft³/s (3.936 m³/s), 19.18 in/yr (487 mm/yr).

EXTREMES.--Current year: Maximum discharge, 2,770 ft³/s (78.4 m³/s) Dec. 21 (gage height, 6.82 ft or 2.079 m, from peak-stage indicator), from rating curve extended above 1,400 ft³/s (39.6 m³/s) on basis of computation of flow over dam at gage height 9.82 ft (2.993 m); minimum, 30 ft³/s (0.85 m³/s) Aug. 27, 28.

Period of record: Maximum discharge, 5,970 ft³/s (169 m³/s) June 30, 1973 (gage height, 9.82 ft or 2.993 m), from rating curve extended above 1,400 ft³/s (39.6 m³/s) on basis of computation of peak flow over dam; minimum, 5.1 ft³/s (0.14 m³/s) Oct. 6, 1948; minimum daily, 8.3 ft³/s (0.24 m³/s) Sept. 5, 1953.

REMARKS.--Records good except those for winter period and periods of doubtful or no gage-height record, which are fair. Some diurnal fluctuation at low flow prior to 1958 caused by small powerplant above station. Flow partly regulated by Groton and Ricker Ponds.

REVISIONS (WATER YEARS).--WSP 1171: Drainage area. WSP 1201: 1942(P), 1944-45(M), 1946-47(P), 1948(M), 1950.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	44	132	123	360	190	142	150	800	309	201	233	52
2	42	232	101	330	170	140	140	550	284	180	138	45
3	61	191	93	300	150	122	275	419	241	142	109	66
4	172	145	94	270	135	140	700	534	217	141	131	212
5	146	104	111	250	120	497	950	409	192	141	179	129
6	158	89	224	230	110	600	900	340	169	134	100	89
7	100	77	174	210	100	615	500	376	152	99	78	72
8	79	73	126	200	95	600	410	336	134	163	68	61
9	70	69	114	220	90	330	350	296	126	119	60	54
10	64	65	196	250	85	230	310	309	120	160	56	49
11	60	60	171	220	80	190	280	375	134	109	52	51
12	56	58	139	180	100	150	270	320	120	85	48	48
13	54	60	99	150	95	135	270	660	107	71	45	58
14	52	61	251	160	90	140	360	437	107	69	42	62
15	52	90	377	160	85	140	1.200	342	134	134	41	51
16	57	368	214	140	81	130	1.000	293	104	137	43	44
17	60	274	130	130	78	320	600	266	229	87	48	40
18	55	177	120	120	75	290	650	248	485	72	102	50
19	53	127	120	120	72	200	550	217	263	240	63	47
20	51	106	140	130	70	160	450	197	189	316	52	46
21	51	88	1.500	150	70	140	470	181	156	163	43	96
22	48	103	900	230	140	140	650	179	147	119	39	312
23	47	106	450	200	850	147	1.100	517	128	96	37	150
24	46	107	300	180	553	206	850	543	111	85	42	97
25	45	139	300	160	360	212	650	627	109	80	38	76
26	45	119	450	150	240	161	500	670	95	73	33	80
27	44	105	1.000	220	180	143	420	582	133	70	31	72
28	43	174	650	470	145	131	400	430	118	70	33	63
29	42	187	460	312	------	130	400	366	101	69	46	146
30	69	137	410	223	------	130	500	332	110	283	101	308
31	127	------	380	204	------	140	------	299	------	286	68	------
TOTAL	2.093	3.823	9.917	6.629	4.609	6.951	16.255	12.450	5.024	4.194	2.199	2.726
MEAN	67.5	127	320	214	165	224	542	402	167	135	70.9	90.9
MAX	172	368	1.500	470	850	615	1.200	800	485	316	233	312
MIN	42	58	93	120	70	122	140	179	95	69	31	40
CFSM	.69	1.29	3.25	2.17	1.68	2.28	5.51	4.09	1.70	1.37	.72	.92
IN.	.79	1.45	3.75	2.51	1.74	2.63	6.15	4.71	1.90	1.59	.83	1.03

CAL YR 1973 TOTAL 90.695 MEAN 248 MAX 2.960 MIN 37 CFSM 2.52 IN 34.29
WTR YR 1974 TOTAL 76.870 MEAN 211 MAX 1.500 MIN 31 CFSM 2.14 IN 29.06

NOTE.--No gage-height record Dec. 18 to Jan. 9, Mar. 29 to May 1. Doubtful gage-height record June 26 to Aug. 5.

PEAK DISCHARGE (BASE, 980 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-21	-	*6.82	2,770	4-5	†2400	a4.80	1,220
12-27	-	-	†1,300	4-15	†1200	a5.26	1,510
2-23	1400	4.70	1,150	4-23	-	-	†1,300

* From peak-stage indicator.
† About.
a From recorder.

01139800 EAST ORANGE BRANCH AT EAST ORANGE, VT.

LOCATION.--Lat 44°05'34", long 72°20'10", Orange County, on left bank 0.3 mi (0.5 km) east of East Orange, 1.6 mi (2.6 km) upstream from mouth, and 5 mi (8 km) southwest of Orange.

DRAINAGE AREA.--8.95 mi² (23.18 km²).

PERIOD OF RECORD.--June 1958 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 1,180 ft (360 m) from topographic map.

AVERAGE DISCHARGE.--16 years, 14.5 ft³/s (0.411 m³/s), 22.00 in/yr (559 mm/yr).

EXTREMES.--Current year: Maximum discharge, 316 ft³/s (8.95 m³/s) Dec. 21 (gage height, 3.95 ft or 1.204 m), from rating curve extended above 130 ft³/s (3.68 m³/s) on basis of slope-area measurement at gage height 5.55 ft (1.692 m); maximum gage height, 5.32 ft (1.622 m) Dec. 21 (ice jam); minimum discharge, 2.0 ft³/s (0.057 m³/s) Aug. 26, 27, 28, 29.

Period of record: Maximum discharge, 672 ft³/s (19.0 m³/s) June 30, 1973 (gage height, 5.55 ft or 1.692 m), from rating curve extended above 130 ft³/s (3.68 m³/s) on basis of slope-area measurement of peak flow; maximum gage height, 6.35 ft (1.935 m) Jan. 22, 1959 (ice jam); minimum discharge, 0.1 ft³/s (0.003 m³/s) Sept. 9, 19, 1963.

REMARKS.--Records good except those for winter period, which are fair. Occasional diurnal fluctuation at low flow caused by mill upstream.

REVISIONS (WATER YEARS).--WRD Mass., N.H., R.I., Vt. 1972: 1960-64(P), 1969-71(P).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.1	14	6.8	39	19	20	18	104	39	9.3	9.0	3.7
2	2.1	9.2	6.3	34	15	18	18	65	32	7.9	5.2	3.1
3	13	9.2	6.1	30	13	18	41	67	30	7.3	4.6	21
4	8.8	5.9	6.8	26	12	23	79	73	28	6.2	34	22
5	11	4.5	15	24	11	84	90	56	26	7.6	17	7.6
6	6.6	4.2	27	22	10	56	65	53	24	7.6	7.6	5.0
7	4.2	4.0	9.5	20	9.4	76	59	59	22	5.7	5.2	4.4
8	3.6	4.0	9.5	18	8.8	54	60	49	18	5.9	4.6	3.7
9	3.1	3.8	15	21	8.2	42	53	45	18	4.8	4.1	3.4
10	2.8	3.5	25	23	7.6	40	47	51	16	6.2	3.7	3.4
11	2.8	3.5	11	21	7.0	30	46	46	19	4.4	3.3	3.6
12	2.7	3.3	8.8	18	8.8	22	47	53	14	3.7	3.0	3.4
13	2.7	3.6	5.6	14	7.6	19	53	70	13	3.4	2.7	9.0
14	2.7	3.8	44	15	7.2	20	88	41	12	3.3	2.5	7.6
15	2.8	12	26	15	7.0	20	114	38	11	9.0	2.5	3.9
16	3.8	43	14	13	6.8	19	69	34	10	5.5	2.3	3.4
17	3.8	9.5	12	12	6.6	25	84	36	35	3.6	10	3.1
18	3.3	6.8	11	11	6.4	22	86	33	35	3.1	9.0	3.7
19	3.1	5.6	11	11	6.2	20	74	31	14	9.9	4.1	3.3
20	3.0	4.7	12	12	6.0	17	72	30	12	12	3.3	10
21	3.0	6.8	120	14	6.0	15	84	29	12	4.6	3.0	29
22	2.8	6.3	58	27	20	15	108	28	12	3.6	2.5	16
23	2.7	5.9	43	18	90	18	116	51	9.9	3.3	2.5	7.3
24	2.7	5.4	35	22	40	21	101	58	9.0	3.1	2.7	5.5
25	2.5	7.3	35	18	30	20	81	66	9.0	2.8	2.4	5.2
26	2.5	5.6	55	17	25	19	76	58	9.9	2.7	2.0	7.3
27	2.5	6.1	83	46	22	17	73	42	13	2.7	2.1	5.2
28	2.4	15	62	38	21	17	80	40	9.3	2.8	2.1	4.8
29	2.4	12	49	29	------	16	93	39	9.0	2.7	9.9	45
30	18	8.0	44	24	------	17	88	36	11	59	18	18
31	7.3	------	46	25	------	18	------	34	------	17	5.5	------
TOTAL	136.8	236.5	912.4	677	437.6	838	2.163	1.515	532.1	230.7	190.4	271.6
MEAN	4.41	7.88	29.4	21.8	15.6	27.0	72.1	48.9	17.7	7.44	6.14	9.05
MAX	18	43	120	46	90	84	116	104	39	59	34	45
MIN	2.1	3.3	5.6	11	6.0	15	18	28	9.0	2.7	2.0	3.1
CFSM	.49	.88	3.28	2.44	1.74	3.02	8.06	5.46	1.98	.83	.69	1.01
IN.	.57	.98	3.79	2.81	1.82	3.48	8.99	6.30	2.21	.96	.79	1.13

CAL YR 1973 TOTAL 9.794.7 MEAN 26.8 MAX 242 MIN 1.6 CFSM 2.99 IN 40.71
WTR YR 1974 TOTAL 8.141.1 MEAN 22.3 MAX 120 MIN 2.0 CFSM 2.49 IN 33.84

PEAK DISCHARGE (BASE, 140 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-21	1630	3.95	316	4-22	1515	2.96	153
3-5	1545	2.89	143	5-1	0700	3.26	198
3-7	1715	2.92	147	5-13	0045	2.95	152
4-15	0015	3.26	198	7-30	0200	3.19	188

01141500 OMPOMPANOOSUC RIVER AT UNION VILLAGE, VT.

LOCATION.--Lat 43°47'23", long 72°15'19", Orange County, on right bank 100 ft (30 m) upstream from covered bridge at Union Village, 0.2 mi (0.3 km) downstream from Avery Brook, 0.3 mi (0.5 km) downstream from Union Village Reservoir, and 3.8 mi (6.1 km) upstream from mouth.

DRAINAGE AREA.--130 mi² (337 km²).

PERIOD OF RECORD.--September 1940 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 435 ft (133 m) from topographic map.

AVERAGE DISCHARGE.--34 years, 193 ft³/s (5.466 m³/s), 20.16 in/yr (512 mm/yr), adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 1,840 ft³/s (52.1 m³/s) Apr. 15 (gage height, 7.40 ft or 2.256 m); minimum, 16 ft³/s (0.45 m³/s) Aug. 16, 17; minimum daily, 18 ft³/s (0.51 m³/s) Aug. 16.

Period of record: Maximum discharge, 4,800 ft³/s (136 m³/s) June 3, 1947 (gage height, 9.65 ft or 2.941 m), from rating curve extended above 2,400 ft³/s (68.0 m³/s) on basis of slope-area measurement of peak flow; minimum, 1.7 ft³/s (0.048 m³/s) Oct. 14, 1949; minimum daily, 2.0 ft³/s (0.057 m³/s) Oct. 20, 1949. Maximum discharge since construction of Union Village Reservoir in 1949, 2,350 ft³/s (66.6 m³/s) Apr. 20, 1950 (gage height, 7.62 ft or 2.323 m); maximum gage height, 7.67 ft (2.338 m) Mar. 22, 1968.

Maximum stage since at least 1869, about 14.5 ft (4.420 m) in November 1927, from information by local resident (discharge not determined).

REMARKS.--Records fair except those for April and May, which are good. Flow regulated by Union Village Reservoir (see p. 214) since October 1949. Some regulation by Lake Fairlee.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	82	139	416	320	228	221	579	323	149	58	102
2	20	115	121	350	270	219	260	469	269	143	42	88
3	38	93	93	270	210	215	446	422	232	133	38	139
4	84	82	98	280	170	216	1,250	577	213	119	65	411
5	50	61	147	230	150	476	1,500	436	186	137	121	251
6	98	50	304	185	130	784	1,570	387	169	157	65	149
7	73	40	246	160	120	831	884	453	149	115	50	113
8	53	36	161	140	115	983	1,120	388	133	104	42	121
9	47	37	151	150	110	640	651	347	123	88	38	108
10	46	37	280	160	105	370	576	393	112	86	35	91
11	42	37	246	140	100	287	529	465	112	70	32	84
12	34	38	167	120	98	260	507	397	95	62	28	73
13	34	38	100	110	95	208	530	832	82	55	25	125
14	39	40	332	130	93	200	702	580	88	47	23	149
15	43	52	457	115	91	230	1,450	466	95	58	23	108
16	42	191	239	110	90	427	1,490	389	76	76	18	88
17	40	206	172	105	88	698	1,270	384	149	55	20	78
18	36	113	170	100	86	395	1,110	344	298	45	93	73
19	35	93	170	100	84	307	959	307	174	56	50	67
20	34	88	170	98	82	288	766	272	143	68	38	68
21	34	81	752	95	80	235	729	249	125	50	31	149
22	32	70	1,090	180	100	227	829	234	139	45	29	362
23	32	91	958	250	450	256	895	304	117	38	26	216
24	32	93	1,200	220	510	357	839	362	117	35	25	165
25	31	88	1,000	200	467	316	739	435	127	32	24	141
26	32	95	832	190	425	227	595	473	137	28	22	151
27	32	110	1,090	240	317	225	520	448	153	27	21	137
28	31	283	1,140	562	242	225	492	368	137	26	25	141
29	30	292	742	517	------	188	471	326	117	25	58	289
30	46	182	550	363	------	196	453	301	153	78	254	348
31	84	------	436	331	------	204	------	272	------	91	137	------
TOTAL	1,325	2,914	13,753	6,617	5,198	10,918	24,353	12,659	4,543	2,298	1,556	4,585
MEAN	42.7	97.1	444	213	186	352	812	408	151	74.1	50.2	153
MAX	98	292	1,200	562	510	983	1,570	832	323	157	254	411
MIN	20	36	93	95	80	188	221	234	76	25	18	67
MEAN†	42.7	100	445	214	185	353	808	408	150	74.0	50.2	153
CFSM†	.33	.77	3.42	1.65	1.42	2.72	6.22	3.14	1.15	.57	.39	1.18
IN.†	.38	.86	3.95	1.90	1.48	3.13	6.94	3.62	1.29	.66	.45	1.31

CAL YR 1973 TOTAL 109,436 MEAN 300 MAX 1,520 MIN 19 MEAN† 300 CFSM† 2.31 IN† 31.31
WTR YR 1974 TOTAL 90,719 MEAN 249 MAX 1,570 MIN 18 MEAN† 249 CFSM† 1.92 IN† 25.96

† Adjusted for change in contents in Union Village Reservoir.

01141800 MINK BROOK NEAR ETNA, N.H.

LOCATION.--Lat 43°42'08", long 72°11'15", Grafton County, on left bank 2 mi (3 km) northeast of Etna and 5 mi (8 km) east of Hanover.

DRAINAGE AREA.--4.60 mi² (11.91 km²).

PERIOD OF RECORD.--August 1962 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 1,000 ft (300 m) from topographic map.

AVERAGE DISCHARGE.--12 years, 6.42 ft³/s (0.182 m³/s), 18.95 in/yr (481 mm/yr).

EXTREMES.--Current year: Maximum discharge, about 330 ft³/s (9.35 m³/s) Dec. 21; maximum gage height, 3.76 ft (1.146 m) Feb. 23 (ice jam); minimum discharge, 0.08 ft³/s (0.002 m³/s) Aug. 26-28.
Period of record: Maximum discharge, 535 ft³/s (15.2 m³/s) June 30, 1973 (gage height, 3.75 ft or 1.143 m), from rating curve extended above 130 ft³/s (3.68 m³/s) on basis of slope-area measurement of peak flow; maximum gage height, 4.19 ft (1.277 m) Mar. 26, 1963 (backwater from ice); minimum discharge, 0.01 ft³/s (<0.001 m³/s) Aug. 11, 1964.

REMARKS.--Records fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.66	4.4	4.7	13	11	4.8	9.4	25	8.2	1.9	.51	1.1
2	.66	3.7	4.0	12	8.5	5.0	13	17	7.6	2.8	.30	1.7
3	1.2	3.5	3.5	10	7.0	4.8	25	16	6.4	2.0	1.0	8.7
4	3.0	3.0	3.2	9.0	6.2	8.0	62	20	5.4	2.0	3.6	11
5	7.2	2.6	5.9	8.2	5.0	30	70	17	4.8	6.0	1.4	3.9
6	3.7	2.4	10	7.6	4.5	25	42	14	4.1	3.3	.78	2.4
7	2.2	2.2	6.4	6.8	4.3	33	26	13	3.6	2.2	.59	2.0
8	1.8	2.0	5.4	6.0	4.0	24	34	12	3.1	1.7	.43	1.7
9	1.5	3.7	6.7	5.4	3.7	15	34	11	2.8	1.4	.51	1.4
10	1.5	2.6	11	5.0	3.5	10	34	20	2.6	3.3	.43	1.0
11	1.4	2.1	8.8	4.8	3.2	8.0	27	28	2.6	1.7	.25	1.0
12	1.3	2.0	6.1	4.6	3.0	7.1	20	18	2.9	1.1	.21	.89
13	1.2	1.9	5.7	4.4	2.8	6.4	24	35	2.7	1.0	.15	4.3
14	1.2	1.9	24	4.2	2.7	5.8	36	25	3.1	.78	.13	5.6
15	1.1	1.9	15	3.8	2.7	5.4	58	14	2.6	1.0	.10	2.4
16	1.1	10	12	3.7	2.6	5.0	31	11	2.3	1.3	.09	1.9
17	1.1	7.1	10	3.3	2.4	23	28	10	6.0	.78	.50	1.6
18	1.1	5.4	8.8	3.2	2.2	13	25	9.0	6.0	.59	1.1	1.3
19	1.1	4.4	8.2	3.0	2.0	10	22	7.6	3.5	1.4	.43	1.3
20	1.1	3.7	7.6	2.6	2.6	9.0	18	6.6	2.7	1.1	.25	1.4
21	1.1	3.2	150	3.3	2.6	8.0	17	6.2	2.5	.78	.18	8.7
22	1.1	3.0	80	12	6.5	9.0	17	6.0	2.4	.59	.15	9.4
23	1.1	2.8	40	8.0	30	9.4	28	9.0	2.2	.59	.13	3.1
24	1.1	2.8	27	8.0	10	10	28	20	1.7	.89	.13	2.8
25	1.1	3.4	22	5.6	6.8	9.0	23	25	1.9	.78	.11	2.6
26	.96	3.5	25	5.2	6.0	7.6	22	22	2.2	.59	.09	2.4
27	.96	3.6	50	30	5.4	6.8	20	23	2.4	.59	.08	2.4
28	.96	7.7	30	25	5.0	6.5	18	15	2.0	.59	.11	3.3
29	.96	6.4	22	18	------	6.2	18	11	1.9	.59	3.6	24
30	5.1	5.4	18	13	------	5.6	18	9.6	2.4	.59	2.6	17
31	4.0	------	15	13	------	5.2	------	8.8	------	.59	1.7	------
TOTAL	53.56	112.3	646.0	261.7	156.2	335.6	847.4	484.8	104.6	44.52	21.64	132.29
MEAN	1.73	3.74	20.8	8.44	5.58	10.8	28.2	15.6	3.49	1.44	.70	4.41
MAX	7.2	10	150	* 30	30	33	70	35	8.2	6.0	3.6	24
MIN	.66	1.9	3.2	2.6	2.0	4.8	9.4	6.0	1.7	.59	.08	.89
CFSM	.38	.81	4.52	1.83	1.21	2.35	6.13	3.39	.76	.31	.15	.96
IN.	.43	.91	5.22	2.12	1.26	2.71	6.85	3.92	.85	.36	.18	1.07

CAL YR 1973 TOTAL 4,057.17 MEAN 11.1 MAX 170 MIN .30 CFSM 2.41 IN 32.81
WTR YR 1974 TOTAL 3,200.61 MEAN 8.77 MAX 150 MIN .08 CFSM 1.91 IN 25.88

PEAK DISCHARGE (BASE, 55 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-21	-	-	*330	4-15	0800	2.39	82
12-27	-	-	*65	4-23	1500	2.21	55
4-4	1900	2.47	96	9-29	2045	2.47	96

* About.

NOTE.--No gage-height record Dec. 21 to Jan. 11, May 4 to June 24.

01142500 AYERS BROOK AT RANDOLPH, VT.

LOCATION.--Lat 43°56'03", long 72°39'30", Orange County, on right bank 55 ft (17 m) upstream from bridge on State Highway 12, just north of village limits of Randolph, 0.4 mi (0.6 km) upstream from Adams Brook, and 1.2 mi (1.9 km) upstream from mouth.

DRAINAGE AREA.--30.5 mi² (79.0 km²).

PERIOD OF RECORD.--July 1939 to current year.

GAGE.--Water-stage recorder. Datum of gage is 631.75 ft (192.557 m) above mean sea level (levels by Corps of Engineers); prior to Oct. 1, 1964, datum was 1.00 ft (0.305 m) higher.

AVERAGE DISCHARGE.--35 years, 45.7 ft³/s (1.294 m³/s), 20.35 in/yr (517 mm/yr).

EXTREMES.--Current year: Maximum discharge, 717 ft³/s (20.3 m³/s) Dec. 21 (gage height, 5.09 ft or 1.551 m); minimum, 9.5 ft³/s (0.27 m³/s) Oct. 1, 2, 3.

Period of record: Maximum discharge, 2,600 ft³/s (73.6 m³/s) June 30, 1973 (gage height, 9.12 ft or 2.780 m, present datum), from rating curve extended above 500 ft³/s (14.2 m³/s) on basis of contracted-opening measurement of peak flow; minimum, 0.6 ft³/s (0.017 m³/s) July 27, 1965.

Maximum stage since at least 1830, about 17 ft or 5.2 m (present datum) in November 1927.

REMARKS.--Records good except those for winter period and period of no gage-height record, which are fair.

REVISIONS (WATER YEARS).--WRD Mass., N.H., R.I., Vt. 1972: 1949(M), 1952(M), 1953(P), 1958(P), 1960(M), 1967(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.6	27	36	105	94	64	48	143	67	29	17	18
2	9.6	28	33	98	65	62	56	110	57	26	14	14
3	19	27	30	80	50	54	75	102	52	26	13	33
4	33	22	31	70	42	60	240	135	52	25	58	59
5	36	18	34	60	38	180	453	100	46	27	41	29
6	36	17	42	56	37	300	259	91	41	29	24	22
7	23	17	43	55	37	210	222	118	37	24	19	20
8	18	16	37	42	36	260	222	98	35	22	17	17
9	16	16	38	32	35	150	163	87	33	19	17	16
10	14	15	73	50	33	115	149	117	31	22	15	17
11	13	13	53	51	32	90	142	105	37	18	13	18
12	13	13	45	45	31	70	140	100	31	19	12	16
13	12	14	39	37	30	56	154	237	28	16	12	28
14	12	15	58	39	29	64	220	134	26	15	12	45
15	12	24	66	45	28	62	386	118	25	20	12	24
16	12	99	40	41	27	60	268	103	24	26	12	20
17	13	49	32	36	25	80	242	109	54	18	17	18
18	13	36	30	32	25	64	242	96	75	15	33	19
19	13	30	34	35	24	58	217	63	38	19	17	17
20	12	27	40	36	25	54	184	74	32	19	13	19
21	12	24	260	38	25	45	175	69	29	15	12	49
22	11	27	258	47	55	45	195	84	30	13	11	67
23	11	27	168	63	280	56	227	81	26	12	11	35
24	11	26	159	77	140	65	212	96	23	12	11	28
25	11	31	190	53	93	63	171	113	31	11	11	26
26	11	28	280	49	66	57	143	91	31	12	11	32
27	11	24	380	156	56	51	126	84	50	12	11	27
28	10	55	232	162	58	45	116	75	35	13	11	25
29	10	52	165	113	------	41	112	70	29	13	16	81
30	24	40	142	95	------	47	106	67	28	52	50	74
31	30	------	117	88	------	45	------	62	------	25	24	------
TOTAL	491.2	862	3,185	2,026	1,516	2,671	5,665	3,133	1,133	624	567	911
MEAN	15.8	28.7	103	65.4	54.1	86.2	189	101	37.8	20.1	18.3	30.4
MAX	36	99	380	162	280	300	453	237	75	52	58	81
MIN	9.6	13	30	32	24	41	48	62	23	11	11	14
CFSM	.52	.94	3.38	2.14	1.77	2.83	6.20	3.31	1.24	.66	.60	1.00
IN.	.60	1.05	3.88	2.47	1.85	3.26	6.91	3.82	1.38	.76	.69	1.11

CAL YR 1973 TOTAL 28,444.3 MEAN 77.9 MAX 1,200 MIN 8.4 CFSM 2.55 IN 34.69
WTR YR 1974 TOTAL 22,784.2 MEAN 62.4 MAX 453 MIN 9.6 CFSM 2.05 IN 27.79

PEAK DISCHARGE (BASE, 350 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-21	1930	5.09	717	3-7	-	-	*480
12-27	1130	4.31	444	4-5	0830	4.55	556
2-23	0630	3.83	383	4-15	0500	4.36	506
3-5	-	-	*500	5-13	0330	3.75	367

* About.

NOTE.--No gage-height record Mar. 5-17.

01144000 WHITE RIVER AT WEST HARTFORD, VT.

LOCATION.--Lat 43°42'51", long 72°25'07", Windsor County, on left bank 700 ft (200 m) upstream from highway bridge at West Hartford and 7.4 mi (11.9 km) upstream from mouth.

DRAINAGE AREA.--690 mi² (1,790 km²).

PERIOD OF RECORD.--June 1915 to current year. October 1927 to September 1928 monthly discharge only, published in WSP 1301.

GAGE.--Water-stage recorder. Datum of gage is 374.53 ft (114.157 m) above mean sea level. Prior to Oct. 30, 1927, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--59 years, 1,169 ft³/s (33.11 m³/s), 23.01 in/yr (584 mm/yr).

EXTREMES.--Current year: Maximum discharge, 20,500 ft³/s (581 m³/s) Dec. 21 (gage height, 13.74 ft or 4.188 m); minimum, 167 ft³/s (4.73 m³/s) Oct. 2.

Period of record: Maximum discharge, 120,000 ft³/s (3,400 m³/s) Nov. 4, 1927 (gage height, 29.3 ft or 8.93 m, from floodmarks), from rating curve extended above 29,000 ft³/s (821 m³/s) on basis of slope-area measurement of peak flow; minimum observed, about 35 ft³/s (0.99 m³/s) Aug. 4, 1918; minimum daily, 54 ft³/s (1.53 m³/s) Sept. 27, 28, 1963.

Stage and discharge of the flood of Nov. 4, 1927, are the greatest since at least 1761.

REMARKS.--Records good except those for winter period, which are fair. Some diurnal fluctuation at low flow during period 1934-50 caused by powerplant above station. Records of suspended-sediment loads for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 756: Drainage area. WSP 781: 1928(M). WSP 1031: 1916(m), 1923. WSP 1301: 1916-26(M), 1929(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	188	554	1,120	2,400	2,100	1,380	1,070	3,080	1,520	750	554	875
2	176	875	910	2,010	1,450	1,520	1,280	2,880	1,480	826	424	675
3	210	718	798	1,800	1,100	1,260	2,030	2,380	1,280	718	361	769
4	556	657	777	1,600	950	1,160	6,870	3,200	1,210	738	839	2,760
5	532	527	812	1,400	850	4,820	12,700	2,550	1,100	842	1,760	1,690
6	826	457	1,800	1,300	780	7,200	7,050	2,230	985	1,250	940	1,130
7	554	415	1,520	1,300	750	4,870	4,130	2,520	910	833	657	903
8	419	392	1,160	1,000	720	6,170	4,840	2,330	840	663	532	757
9	347	378	1,060	750	700	3,310	3,370	2,050	791	570	538	645
10	314	347	1,800	1,000	680	2,580	2,830	2,010	724	576	481	576
11	294	314	1,600	1,250	670	1,970	2,540	2,540	718	522	424	548
12	268	310	1,300	1,200	663	1,550	2,700	2,170	712	457	374	506
13	257	314	985	900	680	1,200	2,770	5,060	645	419	331	914
14	254	314	1,270	850	720	1,300	3,970	3,480	593	374	302	1,360
15	250	331	1,870	1,050	680	1,300	11,100	2,740	576	465	272	992
16	236	1,620	1,240	960	640	1,380	6,280	2,310	538	805	254	757
17	236	1,670	840	830	620	1,850	4,840	2,200	755	517	250	639
18	240	1,040	780	740	600	1,550	4,980	2,100	1,760	415	910	587
19	243	833	840	800	580	1,240	4,540	1,810	1,030	443	599	560
20	243	693	948	850	570	1,190	3,720	1,630	777	587	438	532
21	232	582	9,100	820	570	900	3,380	1,490	669	467	374	848
22	229	599	9,000	1,200	640	900	3,980	1,410	738	383	322	2,220
23	229	663	3,650	1,500	6,600	1,100	6,220	1,580	663	335	287	1,390
24	226	604	2,560	1,700	2,910	1,500	5,100	2,230	570	318	272	1,040
25	223	639	1,700	1,400	1,900	1,550	4,100	2,830	593	306	268	940
26	216	699	3,850	1,150	1,620	1,240	3,300	2,220	681	291	254	985
27	210	628	9,140	1,650	1,400	1,200	2,880	2,050	764	275	232	896
28	200	1,310	6,430	4,000	1,340	1,050	2,600	1,800	819	294	254	805
29	203	1,830	4,250	2,800	------	896	2,560	1,660	651	291	421	1,240
30	254	1,390	3,340	2,100	------	1,080	2,650	1,570	731	883	2,640	2,560
31	758	------	2,700	1,900	------	992	------	1,440	------	861	1,340	------
TOTAL	9,623	21,703	79,150	44,210	33,480	60,408	130,380	71,550	25,823	17,474	17,904	31,099
MEAN	310	723	2,553	1,426	1,196	1,949	4,346	2,308	861	564	578	1,037
MAX	826	1,830	9,140	4,000	6,600	7,200	12,700	5,060	1,760	1,250	2,640	2,760
MIN	176	310	777	740	570	896	1,070	1,410	538	275	232	506
CFSM	.45	1.05	3.70	2.07	1.73	2.82	6.30	3.34	1.25	.82	.84	1.50
IN.	.52	1.17	4.27	2.38	1.81	3.26	7.03	3.86	1.39	.94	.97	1.68

CAL YR 1973 TOTAL 639,078 MEAN 1,751 MAX 22,400 MIN 167 CFSM 2.54 IN 34.45
WTR YR 1974 TOTAL 542,804 MEAN 1,487 MAX 12,700 MIN 176 CFSM 2.16 IN 29.26

PEAK DISCHARGE (BASE, 11,600 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-21	1930	13.74	20,500				
12-27	1130	11.06	12,400				
4-5	1100	11.28	13,000				
4-15	0730	11.73	14,300				

01144500 CONNECTICUT RIVER AT WHITE RIVER JUNCTION, VT.

LOCATION.--Lat 43°38'49", long 72°18'53", Windsor County, on right bank 50 ft (15 m) downstream from railroad bridge at White River Junction, 500 ft (150 m) downstream from White River, and at mile 215.0 (kilometre 345.9).

DRAINAGE AREA.--4,092 mi² (10,598 km²).

PERIOD OF RECORD.--October 1911 to current year.

GAGE.--Water-stage recorder. Datum of gage is 321.52 ft (97.999 m) above mean sea level. Prior to June 16, 1918, nonrecording gage on downstream side of pier of railroad bridge 50 ft (15 m) upstream at same datum. June 16, 1918, to Nov. 2, 1930, nonrecording gage at various locations on upstream and downstream sides of railroad bridge at same datum.

AVERAGE DISCHARGE.--63 years, 7,109 ft³/s (201.3 m³/s), 23.59 in/yr (599 mm/yr), adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 51,300 ft³/s (1,450 m³/s) Dec. 21 (gage height, 19.35 ft or 5.898 m); minimum daily, 706 ft³/s (20.0 m³/s) Aug. 11.

Period of record: Maximum discharge, 136,000 ft³/s (3,850 m³/s) Nov. 4, 1927 (gage height, 35.0 ft or 10.67 m, present site), from rating curve extended above 70,000 ft³/s (1,980 m³/s); minimum daily, 82 ft³/s (2.32 m³/s) Aug. 8, 1965.

Stage and discharge of the flood of Nov. 4, 1927, are the greatest since at least 1760.

REMARKS.--Records good except those for winter period, which are fair. Flow regulated by powerplants and by First Connecticut and Second Connecticut Lakes, Lake Francis, Moore and Comerford Reservoirs, Union Village Reservoir (see p.214), and other reservoirs (combined usable capacity, about 17,200,000,000 ft³ or 487,000,000 m³).

REVISIONS (WATER YEARS).--WSP 741: 1932 (adjusted monthly and yearly figures only). WSP 781: 1928(M). WSP 891: Drainage area. WSP 1301: 1922-26(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3,690	7,080	8,450	13,900	11,700	7,600	5,490	31,100	14,300	7,070	5,220	2,210
2	4,330	6,670	7,800	11,700	9,550	6,200	6,260	34,400	12,400	7,190	4,430	2,550
3	5,700	8,080	7,350	12,000	9,000	5,200	8,590	31,700	10,700	3,110	2,460	5,090
4	6,080	5,560	7,480	9,880	8,400	7,400	18,600	29,000	11,400	2,470	1,600	7,660
5	7,200	7,300	8,350	7,600	7,400	12,000	38,400	23,600	8,740	10,200	5,360	5,860
6	7,930	6,490	9,800	6,400	6,800	22,900	38,500	18,500	8,600	12,100	4,280	3,790
7	10,800	4,610	9,610	7,600	6,700	24,300	30,700	17,000	7,690	10,500	3,620	3,030
8	7,160	4,040	8,050	7,300	7,200	28,400	29,400	16,100	5,400	6,770	3,160	2,040
9	6,740	4,150	9,730	7,000	6,200	22,100	23,600	15,400	1,710	7,110	1,750	2,930
10	6,400	3,220	9,240	6,200	5,400	16,200	18,400	15,700	7,310	8,240	730	2,890
11	6,250	1,500	9,890	7,600	7,100	13,100	14,700	17,700	7,580	10,900	706	4,210
12	5,780	2,790	7,680	4,500	7,600	10,400	13,700	17,500	6,730	10,300	2,510	4,630
13	3,470	2,790	8,960	3,100	7,400	9,770	13,100	26,100	4,670	5,120	2,220	4,130
14	2,370	2,700	6,850	6,800	6,800	8,800	16,300	26,500	4,300	2,170	2,340	1,600
15	4,890	4,360	13,300	6,600	7,000	9,680	33,700	23,300	3,550	6,760	1,860	1,010
16	3,230	7,260	11,500	6,200	5,800	9,190	35,700	18,600	3,180	7,400	1,670	2,890
17	4,170	15,300	9,510	5,600	2,300	12,900	31,000	16,200	5,900	5,060	746	1,310
18	4,150	10,200	7,320	6,000	4,500	12,500	28,500	16,000	9,540	4,950	1,630	1,660
19	4,200	6,100	7,010	4,600	5,400	10,600	24,900	12,900	10,100	6,160	4,080	2,270
20	3,650	6,510	7,780	3,500	5,200	10,300	24,100	11,900	8,720	3,350	1,860	1,980
21	2,180	7,000	21,800	7,300	4,900	10,100	22,700	8,920	7,840	3,800	2,270	2,800
22	2,490	4,250	44,400	7,600	6,400	8,780	23,100	8,860	3,170	6,520	2,520	7,640
23	4,820	6,050	40,000	8,600	16,500	7,610	30,700	10,600	1,890	4,130	3,460	6,770
24	5,930	6,190	34,400	10,000	13,000	7,340	37,600	21,500	7,120	5,670	1,540	3,910
25	4,090	5,920	18,300	8,400	10,500	9,270	39,600	24,400	4,930	3,860	1,240	4,640
26	3,730	7,090	20,100	8,200	8,300	9,810	35,800	24,600	2,800	4,090	1,230	4,430
27	2,600	7,320	29,400	10,500	8,300	8,970	30,800	25,100	1,700	1,850	3,160	3,600
28	2,360	8,690	30,300	16,100	6,600	6,900	24,400	22,300	4,100	1,060	2,830	1,530
29	4,060	10,800	27,800	14,200	------	8,140	22,300	18,600	2,960	3,220	2,830	3,510
30	6,620	7,970	23,600	10,800	------	6,110	25,300	15,100	2,740	5,070	4,990	9,340
31	5,360	------	17,000	10,900	------	6,730	------	14,600	------	4,920	3,200	------
TOTAL	152,430	187,990	482,760	256,680	211,950	349,300	745,940	613,780	191,770	181,120	81,502	111,910
MEAN	4,917	6,266	15,570	8,280	7,570	11,270	24,860	19,800	6,392	5,843	2,629	3,730
MAX	10,800	15,300	44,400	16,100	16,500	28,400	39,600	34,400	14,300	12,100	5,360	9,340
MIN	2,180	1,500	6,850	3,100	2,300	5,200	5,490	8,860	1,700	1,060	706	1,010
MEAN†	4,180	6,884	16,120	7,617	5,582	10,480	27,950	20,240	6,368	5,687	2,313	3,709
CFSM†	1.02	1.68	3.94	1.86	1.36	2.56	6.83	4.95	1.56	1.39	.57	.91
IN.†	1.18	1.88	4.54	2.15	1.42	2.95	7.62	5.70	1.74	1.60	.65	1.01

CAL YR 1973 TOTAL 3,988,046 MEAN 10,930 MAX 67,800 MIN 746 MEAN† 10,970 CFSM† 2.68 IN† 36.41
WTR YR 1974 TOTAL 3,567,132 MEAN 9,773 MAX 44,400 MIN 706 MEAN† 9,780 CFSM† 2.39 IN† 32.45

PEAK DISCHARGE (BASE, 34,000 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-21	2330	19.35	51,300	4-16	0130	15.90	36,800
12-27	1545	15.29	34,400	4-24	2300	16.99	41,200
4-5	2230	16.92	40,900	5-2	0900	15.55	35,400

† Adjusted for change in contents in First Connecticut and Second Connecticut Lakes, Lake Francis, Moore and Comerford Reservoirs, and Union Village Reservoir.

01145000 MASCOMA RIVER AT WEST CANAAN, N.H.

LOCATION.--Lat 43°39'00", long 72°04'50", Grafton County, on right bank 45 ft (14 m) downstream from Boston and Maine Railroad bridge, 0.9 mi (1.4 km) east of West Canaan, 1.2 mi (1.9 km) downstream from Indian River, 3.5 mi (5.6 km) west of Canaan, and at mile 19.3 (kilometre 31.1).

DRAINAGE AREA.--80.5 mi² (208.5 km²).

PERIOD OF RECORD.--July 1939 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 835 ft (254.5 m) from topographic map.

AVERAGE DISCHARGE.--35 years, 117 ft³/s (3.313 m³/s), 19.74 in/yr (501 mm/yr).

EXTREMES.--Current year: Maximum discharge, 2,040 ft³/s (57.8 m³/s) Dec. 22 (gage height, 6.70 ft or 2.042 m); minimum, 4.4 ft³/s (0.12 m³/s) Aug. 17.

Period of record: Maximum discharge, 3,780 ft³/s (107 m³/s) Mar. 27, 1953 (gage height, 8.94 ft or 2.725 m), from rating curve extended above 1,900 ft³/s (53.8 m³/s) on basis of slope-area measurement at gage height 9.6 ft (2.93 m); minimum, 2.9 ft³/s (0.082 m³/s) Aug. 8, 17, 18, 19, 1965.

Flood in September 1938 reached a stage of 9.6 ft (2.93 m), from floodmarks (discharge, 4,310 ft³/s or 122 m³/s, from rating curve extended above 1,900 ft³/s or 53.8 m³/s as explained above).

REMARKS.--Records good except those for winter period, which are fair.

REVISIONS (WATER YEARS).--WSP 1901: 1960.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	104	104	205	160	80	88	353	141	50	12	38
2	15	125	73	170	140	84	117	338	131	57	11	35
3	19	96	70	150	120	78	179	228	112	52	9.8	52
4	42	82	72	130	105	105	514	298	96	43	37	243
5	48	63	80	120	90	200	924	222	83	64	30	125
6	89	52	196	105	80	400	1.010	177	75	66	19	74
7	51	45	140	96	72	350	524	195	66	45	14	55
8	37	42	90	90	66	300	489	181	57	61	12	44
9	31	39	82	84	61	200	338	153	52	53	12	37
10	27	35	160	80	55	160	280	218	47	49	14	32
11	25	33	120	76	52	135	239	413	50	37	11	27
12	24	31	105	72	50	115	253	260	45	28	9.4	19
13	22	32	96	68	47	100	273	496	50	24	8.0	34
14	21	34	160	66	44	90	300	410	41	21	7.4	58
15	21	35	250	64	43	80	1.010	258	38	26	6.9	45
16	21	123	180	62	41	80	916	198	35	25	6.4	30
17	21	145	140	60	40	377	615	181	80	21	6.4	24
18	20	88	125	58	39	338	584	166	96	18	17	21
19	20	71	120	56	38	198	545	133	64	24	15	20
20	20	58	115	55	37	148	425	114	49	35	12	18
21	22	49	620	53	37	110	368	102	42	25	9.4	27
22	22	56	1.730	100	60	105	416	98	42	20	8.3	153
23	21	57	844	195	170	100	507	125	38	17	7.4	77
24	20	54	500	160	130	120	563	216	33	16	7.4	48
25	19	76	375	140	115	140	493	315	30	15	6.9	38
26	19	83	310	120	100	120	359	315	57	14	6.2	33
27	19	69	410	180	86	100	273	344	65	12	5.9	31
28	19	134	720	300	82	90	237	237	53	12	8.3	29
29	18	185	552	250	------	85	232	195	40	13	49	81
30	102	131	374	210	------	80	243	174	66	12	72	243
31	185	------	258	190	------	75	------	152	------	13	47	------
TOTAL	1.056	2.227	9.171	3.765	2.160	4.743	13.314	7.265	1.874	968	498.1	1.791
MEAN	34.1	74.2	296	121	77.1	153	444	234	62.5	31.2	16.1	59.7
MAX	185	185	1.730	300	170	400	1.010	496	141	66	72	243
MIN	15	31	70	53	37	75	88	98	30	12	5.9	18
CFSM	.42	.92	3.68	1.50	.96	1.90	5.52	2.91	.78	.39	.20	.74
IN.	.49	1.03	4.24	1.74	1.00	2.19	6.15	3.36	.87	.45	.23	.83

CAL YR 1973 TOTAL 66.469.0 MEAN 182 MAX 2.370 MIN 12 CFSM 2.26 IN 30.72
WTR YR 1974 TOTAL 48.832.1 MEAN 134 MAX 1.730 MIN 5.9 CFSM 1.66 IN 22.57

PEAK DISCHARGE (BASE, 950 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-22	0500	6.70	2,040				
4-6	0030	5.27	1,220				
4-15	2030	5.28	1,220				

01150500 MASCOMA RIVER AT MASCOMA, N.H.

LOCATION.--Lat 43°39'01", long 72°11'05", Grafton County, on left bank at Mascoma, 250 ft (76 m) downstream from railroad bridge, 1,000 ft (300 m) downstream from outlet of Mascoma Lake, and 9.9 mi (15.9 km) upstream from mouth.

DRAINAGE AREA.--153 mi² (396 km²).

PERIOD OF RECORD.--August 1923 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 740 ft (226 m) from topographic map.

AVERAGE DISCHARGE.--51 years, 214 ft³/s (6.060 m³/s), 18.99 in/yr (482 mm/yr), adjusted for storage since October 1928.

EXTREMES.--Current year: Maximum discharge, 1,520 ft³/s (43.0 m³/s) Apr. 20 (gage height, 3.81 ft or 1.161 m); minimum daily, 25 ft³/s (0.71 m³/s) Oct. 12, 13.
Period of record: Maximum discharge, 5,840 ft³/s (165 m³/s) Mar. 19, 1936 (gage height, 7.50 ft or 2.286 m), from rating curve extended above 2,500 ft³/s (70.8 m³/s) on basis of computations of flow over dams at gage heights 6.85 ft (2.088 m) and 7.50 ft (2.286 m); minimum daily, 2 ft³/s (0.06 m³/s) Feb. 3, 1939, Sept. 1, 1940.

REMARKS.--Records excellent. Flow regulated by Mascoma and Crystal Lakes and Goose and Grafton Ponds (see p.214).

REVISIONS (WATER YEARS).--WSP 726: Drainage area. WSP 801: 1925(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	79	240	258	745	476	157	189	433	235	91	47	49
2	79	231	240	600	491	157	199	472	235	91	47	50
3	70	214	219	479	432	157	228	478	196	93	46	50
4	70	309	201	400	379	154	472	456	139	96	46	56
5	110	262	178	352	295	167	807	456	139	102	46	68
6	145	216	178	349	206	230	1,290	346	117	103	45	73
7	147	207	219	298	205	331	1,390	188	94	106	45	75
8	145	153	222	246	201	581	1,270	196	85	105	44	76
9	142	136	213	252	199	785	1,130	208	85	105	44	76
10	140	201	216	255	196	659	925	262	87	103	43	76
11	65	192	243	267	160	460	772	362	88	97	43	76
12	25	125	252	274	112	301	682	574	87	91	42	75
13	25	123	246	274	112	272	634	1,140	88	85	42	76
14	30	75	249	274	112	247	604	1,130	88	82	41	78
15	30	35	305	240	112	227	706	841	88	80	41	79
16	35	46	352	201	111	214	1,030	514	87	79	41	78
17	40	70	356	219	110	257	1,220	342	88	75	41	78
18	45	92	330	246	110	362	820	342	90	70	41	79
19	50	103	298	267	110	406	538	342	93	70	40	82
20	55	105	267	264	100	376	1,150	247	94	70	40	84
21	59	107	533	253	89	343	932	139	94	69	40	93
22	61	108	1,050	298	91	308	406	141	94	69	40	115
23	65	112	1,420	338	93	280	496	143	91	68	40	141
24	66	113	1,370	328	99	270	841	154	90	68	40	152
25	67	117	1,140	320	123	272	1,140	198	88	67	39	152
26	66	128	906	304	147	266	848	370	84	63	43	145
27	63	153	806	296	158	253	568	700	84	60	49	143
28	62	222	849	324	159	236	526	634	88	59	49	141
29	61	281	948	390	------	219	478	568	88	53	49	154
30	136	277	950	432	------	207	447	514	90	48	48	227
31	240	------	868	437	------	195	------	354	------	48	49	------
TOTAL	2,491	4,748	15,888	10,221	5,198	9,349	22,828	13,244	3,184	2,466	1,351	2,896
MEAN	80.4	158	513	330	185	302	761	427	106	79.5	43.6	96.5
MAX	240	309	1,420	745	491	785	1,390	1,140	235	106	49	227
MIN	25	35	178	201	89	154	189	139	84	48	39	49
MEAN†	51.7	118	594	262	189	359	840	427	112	43.5	18.0	102
CFSM†	.34	.77	3.88	1.71	1.23	2.35	5.49	2.79	.73	.28	.12	.67
IN.†	.39	.86	4.48	1.97	1.28	2.70	6.13	3.22	.81	.33	.14	.75

CAL YR 1973 TOTAL 129,059 MEAN 354 MAX 3,170 MIN 25 MEAN† 361 CFSM† 2.36 IN† 32.02
WTR YR 1974 TOTAL 93,854 MEAN 257 MAX 1,420 MIN 25 MEAN† 260 CFSM† 1.70 IN† 23.06

† Adjusted for change in contents in Mascoma and Crystal Lakes and Goose and Grafton Ponds.

01150800 KENT BROOK NEAR SHERBURNE, VT.

LOCATION.--Lat 43°40'24", long 72°48'33", Rutland County, on left bank 40 ft (12 m) downstream from culvert on State Highway 100, 1.4 mi (2.3 km) upstream from mouth, and 2 mi (3.2 km) northwest of Sherburne.

DRAINAGE AREA.--3.31 mi² (8.57 km²).

PERIOD OF RECORD.--October 1963 to September 1974 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 1,560 ft (475 m) from topographic map. Prior to Sept. 13, 1967, at site 25 ft (7.6 m) upstream at same datum.

AVERAGE DISCHARGE.--11 years, 8.19 ft³/s (0.232 m³/s), 33.60 in/yr (853 mm/yr).

EXTREMES.--Current year: Maximum discharge, about 200 ft³/s (5.7 m³/s) Dec. 21; minimum, 1.3 ft³/s (0.037 m³/s) Oct. 1-3.
Period of record: Maximum discharge, 600 ft³/s (17.0 m³/s) June 30, 1973 (gage height, 12.81 ft or 3.90 m, at upstream side of culvert, from floodmark), measurement of flow through culvert; minimum, 0.27 ft³/s (0.008 m³/s) Aug. 7, 8, 1965.

REMARKS.--Records fair. Recording rain gage at station since April 1964 (no winter records).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.3	11	5.7	12	11	7.0	5.2	24	7.0	4.3	3.0	6.2
2	1.3	7.0	4.3	10	8.3	6.7	6.5	14	4.3	3.0	2.4	6.5
3	8.0	8.9	4.1	8.4	6.4	6.0	10	16	4.2	8.1	14	31
4	4.4	4.6	4.3	7.4	5.2	10	55	22	3.7	5.0	25	34
5	11	3.3	10	6.6	4.7	45	77	13	3.7	24	16	13
6	4.2	2.9	24	6.1	4.4	31	32	11	3.3	22	8.6	8.1
7	2.8	2.6	11	5.7	4.3	34	22	14	3.2	9.8	6.2	6.5
8	2.3	2.5	7.5	5.4	4.2	25	19	12	2.1	5.7	4.2	4.5
9	2.2	2.5	12	5.1	4.1	16	15	8.1	2.4	4.3	3.8	4.2
10	2.1	2.3	23	4.8	4.0	12	14	10	2.0	6.2	6.7	3.8
11	2.0	2.2	12	4.5	3.9	9.5	12	9.8	2.6	4.2	4.3	3.7
12	1.9	2.2	8.6	4.3	3.8	7.0	11	14	2.4	4.0	2.8	3.2
13	1.8	2.2	7.5	4.2	3.6	6.0	12	33	2.3	3.5	3.8	26
14	1.9	2.3	16	4.1	3.5	6.8	41	17	2.1	4.8	3.2	20
15	1.8	4.8	12	4.0	3.3	6.4	83	12	1.9	7.2	2.4	8.1
16	1.7	25	8.0	4.0	3.1	6.3	33	9.5	1.9	4.5	2.1	6.2
17	1.7	9.4	6.5	3.9	2.9	10	30	10	15	3.7	3.5	5.0
18	1.7	5.3	6.0	3.8	2.7	8.0	30	8.3	13	3.0	3.8	6.0
19	1.9	4.2	6.0	4.0	2.6	6.4	23	7.0	5.2	8.6	2.8	4.2
20	1.7	3.5	6.2	4.0	2.9	5.4	17	6.0	5.0	5.7	3.7	4.5
21	1.7	3.2	50	7.0	2.7	4.8	19	5.2	5.7	3.7	3.7	19
22	1.7	4.7	40	15	15	5.0	32	5.7	6.0	3.2	2.9	15
23	1.7	3.9	25	9.0	40	6.0	46	10	3.5	2.9	2.3	8.9
24	1.6	3.5	24	10	17	8.0	33	15	2.8	2.9	2.5	7.0
25	1.6	5.2	30	8.0	10	7.2	21	14	3.5	2.4	2.5	5.9
26	1.5	3.9	60	7.0	8.0	6.4	17	9.5	6.2	2.4	2.5	8.9
27	1.5	4.3	70	23	6.7	5.6	14	8.1	8.6	2.5	2.5	5.3
28	1.5	14	40	22	6.2	4.8	12	7.0	4.8	2.4	6.0	3.7
29	1.5	15	25	12	------	4.5	15	6.5	6.7	2.4	24	14
30	12	8.3	18	9.2	------	5.0	16	6.0	7.2	15	25	13
31	5.3	------	14	11	------	4.6	------	5.2	------	5.5	9.2	------
TOTAL	89.3	174.7	590.7	245.5	194.5	326.4	772.7	362.9	142.3	186.9	205.4	305.4
MEAN	2.88	5.82	19.1	7.92	6.95	10.5	25.8	11.7	4.74	6.03	6.63	10.2
MAX	12	25	70	23	40	45	83	33	15	24	25	34
MIN	1.3	2.2	4.1	3.8	2.6	4.5	5.2	5.2	1.9	2.4	2.1	3.2
CFSM	.87	1.76	5.77	2.39	2.10	3.17	7.79	3.53	1.43	1.82	2.00	3.08
IN.	1.00	1.96	6.64	2.76	2.19	3.67	8.68	4.08	1.60	2.10	2.31	3.43

CAL YR 1973 TOTAL 4,474.73 MEAN 12.3 MAX 300 MIN .93 CFSM 3.72 IN 50.29
WTR YR 1974 TOTAL 3,596.70 MEAN 9.85 MAX 83 MIN 1.3 CFSM 2.98 IN 40.42

PEAK DISCHARGE (BASE, 90 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-21	-	-	*200	7-5	1830	6.72	140
12-27	-	-	*100	8-3	2130	6.30	116
4-14	2400	7.01	160	9-3	1745	5.94	93

* About.

NOTE.--No gage-height record Dec. 19 to Jan. 15, Mar. 10 to Apr. 3.

01151500 OTTAUQUECHEE RIVER AT NORTH HARTLAND, VT.

LOCATION.--Lat 43°36'09", long 72°21'17", Windsor County, on left bank 100 ft (30 m) upstream from highway bridge at North Hartland, 0.3 mi (0.5 km) downstream from North Hartland Dam, and 1.2 mi (1.9 km) upstream from mouth.

DRAINAGE AREA.--221 mi² (572 km²).

PERIOD OF RECORD.--October 1930 to current year.

GAGE.--Water-stage recorder. Datum of gage is 336.77 ft (102.647 m) above mean sea level (levels by Corps of Engineers).

AVERAGE DISCHARGE.--44 years, 388 ft³/s (10.99 m³/s), 23.84 in/yr (606 mm/yr), adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 3,930 ft³/s (111 m³/s) Dec. 28 (gage height, 7.22 ft or 2.201 m); minimum, 6.5 ft³/s (0.18 m³/s) July 24; minimum daily, 49 ft³/s (1.39 m³/s) Aug. 27.

Period of record: Maximum discharge, 24,400 ft³/s (691 m³/s) Sept. 21, 1938 (gage height, 17.68 ft or 5.389 m), from rating curve extended above 6,200 ft³/s (176 m³/s) on basis of computations of flow over dams at gage heights 15.58, 17.68, and 21.5 ft (4.749, 5.389, and 6.55 m); minimum, 2.9 ft³/s (0.082 m³/s) July 31, 1933; minimum daily, 3.8 ft³/s (0.11 m³/s) July 3, 1933. Maximum discharge since construction of North Hartland Dam in March 1961, 5,930 ft³/s (168 m³/s) Apr. 26, 1969 (gage height, 8.52 ft or 2.597 m).

Maximum stage since at least 1760, 21.5 ft (6.55 m) in November 1927, from floodmarks (discharge, 30,400 ft³/s or 861 m³/s, by computation of peak flow over dam).

REMARKS.--Records excellent except those for winter period, which are fair. Flow regulated by powerplants above station and by North Hartland Reservoir (see p. 214) since March 1961; greater regulation by powerplants prior to 1958. Small seasonal storage in reservoir at Plymouth.

DISCHARGE. IN CUBIC FEET PER SECOND. WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	60	191	242	801	749	416	408	858	399	189	144	171
2	60	284	197	652	490	458	495	752	319	188	143	148
3	70	233	167	490	370	367	798	651	292	170	115	223
4	130	215	171	460	340	407	2.070	924	293	162	140	876
5	146	172	185	430	295	1.390	3.170	714	292	201	342	590
6	240	124	455	370	265	2.070	3.010	633	292	436	287	240
7	145	109	365	340	260	1.560	1.410	773	227	418	132	179
8	114	137	277	320	250	1.370	1.760	716	174	280	120	181
9	103	145	260	310	240	1.300	1.120	590	174	225	144	170
10	97	137	739	280	235	743	972	681	174	170	161	147
11	93	120	514	270	230	557	862	804	174	128	130	140
12	91	126	386	260	230	528	985	682	176	128	112	123
13	79	126	292	260	240	374	1.080	1.260	176	129	96	543
14	79	130	461	260	250	460	1.440	874	214	119	82	315
15	84	135	585	260	220	429	3.280	525	237	100	69	357
16	83	279	367	250	200	411	1.940	694	164	120	69	256
17	75	325	229	250	210	931	1.580	694	133	129	69	188
18	72	225	210	250	220	542	1.540	626	609	109	104	175
19	77	191	205	260	198	443	1.370	536	339	90	102	134
20	74	173	210	270	208	413	1.090	476	208	127	80	143
21	72	149	1.150	294	204	328	996	433	191	146	74	215
22	69	161	2.920	490	256	364	1.080	434	191	122	73	545
23	71	170	2.480	458	1.320	403	1.450	477	190	98	73	297
24	68	160	1.520	672	805	598	1.320	626	182	89	73	248
25	66	186	712	535	527	518	1.180	707	158	95	73	274
26	65	198	1.230	418	422	420	925	634	177	81	56	272
27	64	166	3.250	717	362	392	799	487	219	74	49	232
28	60	243	3.350	1.570	372	359	720	436	219	74	56	214
29	62	343	1.660	985	------	306	684	438	217	77	151	298
30	106	292	1.160	768	------	348	684	438	197	98	335	866
31	275	------	890	724	------	341	------	450	------	154	358	------
TOTAL	2.950	5.645	26.839	14.674	9.968	19.546	40.218	20.023	7.007	4.726	4.052	8.760
MEAN	95.2	188	866	473	356	631	1.341	646	234	152	131	292
MAX	275	343	3.350	1.570	1.320	2.070	3.280	1.260	609	436	382	876
MIN	60	109	167	250	198	306	408	433	133	74	49	123
MEAN†	96.6	188	866	475	354	630	1.339	685	231	157	127	292
CFSM†	.44	.85	3.92	2.15	1.60	2.85	6.06	3.10	1.05	.71	.57	1.32
IN.†	.50	.95	4.52	2.48	1.67	3.29	6.76	3.57	1.17	.82	.66	1.47

CAL YR 1973 TOTAL 221.948 MEAN 608 MAX 4.610 MIN 56 MEAN† 608 CFSM† 2.75 IN† 37.36
WTR YR 1974 TOTAL 164.408 MEAN 450 MAX 3.350 MIN 49 MEAN† 454 CFSM† 2.05 IN† 27.87

† Adjusted for change in contents in North Hartland Reservoir.

01152500 SUGAR RIVER AT WEST CLAREMONT, N.H.

LOCATION.--Lat 43°23'15", long 72°21'45", Sullivan County, on right bank 0.2 mi (0.3 km) downstream from Redwater Brook at West Claremont, and 2.4 mi (3.9 km) upstream from mouth.

DRAINAGE AREA.--269 mi² (697 km²).

PERIOD OF RECORD.--May 1928 to current year. Published as "at Claremont" prior to October 1928.

GAGE.--Water-stage recorder. Datum of gage is 358.78 ft (109.356 m) above mean sea level (levels by Corps of Engineers). Prior to Oct. 1, 1928, nonrecording gage at site 0.8 mi (1.3 km) upstream at different datum.

AVERAGE DISCHARGE.--46 years, 396 ft³/s (11.21 m³/s), 19.99 in/yr (508 mm/yr), adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 6,550 ft³/s (185 m³/s) Dec. 22 (gage height, 7.47 ft or 2.277 m); minimum daily, 51 ft³/s (1.44 m³/s) Oct. 17.

Period of record: Maximum discharge, 14,000 ft³/s (396 m³/s) Mar. 19, 1936 (gage height, 10.92 ft or 3.328 m), from rating curve extended above 6,700 ft³/s (190 m³/s) on basis of computations of flow over dam at gage heights 10.49 and 10.92 ft (3.197 and 3.328 m); maximum gage height, 11.80 ft (3.597 m) Mar. 12, 1936 (ice jam); minimum daily discharge, 14 ft³/s (0.40 m³/s) Aug. 26, 1965.

REMARKS.--Records excellent except those for winter period, which are fair, and those for period of no gage-height record, which are poor. Regulation by Sunapee Lake 25 mi (40 km) upstream (see p.214) and occasional diurnal fluctuation at low flow by mills above station; greater regulation by mills prior to 1971.

REVISIONS (WATER YEARS).--WSP 711: 1930(M). WSP 756: Drainage area. WSP 1901: 1960 (adjusted figures only).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	76	305	256	1,000	1,100	364	422	1,270	520	163	76	101
2	73	336	211	800	900	370	562	1,160	483	147	73	110
3	75	264	176	650	700	319	701	859	433	175	70	143
4	62	212	172	560	600	379	1,820	911	387	169	66	518
5	70	177	180	500	500	964	2,930	814	326	157	68	398
6	83	154	419	440	400	1,190	2,800	679	288	206	66	262
7	91	140	407	400	340	1,080	1,690	642	237	171	65	208
8	88	131	311	370	270	1,180	1,450	633	208	158	63	175
9	76	124	284	340	250	833	1,230	553	190	145	63	146
10	68	118	557	320	232	670	1,030	768	164	127	63	127
11	62	107	529	300	215	513	985	1,230	153	118	62	110
12	60	107	422	280	205	456	1,100	944	153	105	60	97
13	59	106	321	270	215	343	1,230	1,770	152	96	59	92
14	58	106	412	260	180	372	1,280	1,500	141	86	58	99
15	59	107	762	250	165	371	2,600	1,110	137	89	56	104
16	53	143	517	240	165	345	2,110	918	127	91	55	96
17	51	178	330	230	195	1,650	1,660	827	151	82	62	87
18	56	162	290	220	175	1,090	1,420	749	232	79	69	92
19	74	150	280	210	160	762	1,270	652	184	83	62	88
20	77	140	280	200	170	616	1,100	587	161	102	59	98
21	81	130	2,600	200	180	521	992	516	148	95	58	140
22	83	130	4,690	350	275	484	918	459	143	88	65	241
23	84	131	2,300	560	850	482	931	429	133	82	71	207
24	84	126	1,000	600	655	664	1,230	561	124	78	78	156
25	82	155	700	480	532	637	1,340	937	119	77	71	133
26	83	163	1,000	400	447	526	1,080	999	170	76	66	127
27	82	153	2,000	800	404	471	931	944	197	74	68	118
28	79	202	2,500	1,300	354	414	827	762	189	75	71	116
29	76	361	2,000	1,800	------	358	719	669	166	77	111	148
30	231	327	1,600	1,600	------	363	592	626	163	80	114	318
31	440	------	1,200	1,300	------	365	------	554	------	79	119	------
TOTAL	2,776	5,145	28,706	17,230	10,834	19,152	38,950	26,032	6,379	3,430	2,167	4,855
MEAN	89.5	172	926	556	387	618	1,298	840	213	111	69.9	162
MAX	440	361	4,690	1,800	1,100	1,650	2,930	1,770	520	206	119	518
MIN	51	106	172	200	160	319	422	429	119	74	55	87
MEAN†	69.4	153	1,038	477	381	659	1,315	888	195	73.7	21.7	162
CFSM†	.26	.57	3.86	1.77	1.42	2.45	4.89	3.30	.72	.27	.08	.60
IN.†	.30	.63	4.45	2.05	1.47	2.82	5.45	3.81	.81	.32	.09	.67

CAL YR 1973 TOTAL 214,781 MEAN 588 MAX 4,690 MIN 51 MEAN† 597 CFSM† 2.22 IN† 30.11
WTR YR 1974 TOTAL 165,656 MEAN 454 MAX 4,690 MIN 51 MEAN† 453 CFSM† 1.68 IN† 22.88

PEAK DISCHARGE (BASE, 3,000 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-22	0130	7.47	6,550				
4-6	0200	5.68	3,630				
4-15	1530	5.22	3,010				

† Adjusted for change in contents in Sunapee Lake.
NOTE.--No gage-height record Dec. 23 to Feb. 6.

01153000 BLACK RIVER AT NORTH SPRINGFIELD, VT.

LOCATION.--Lat 43°20'00", long 72°30'55", Windsor County, on right bank at North Springfield, 800 ft (250 m) downstream from North Springfield Dam, 1,300 ft (400 m) upstream from Great Brook, and 8.1 mi (13.0 km) upstream from mouth.

DRAINAGE AREA.--158 mi² (409 km²).

PERIOD OF RECORD.--October 1929 to current year. October 1929 monthly discharge only, published in WSP 1301.

GAGE.--Water-stage recorder. Datum of gage is 445.79 ft (135.877 m) above mean sea level (levels by Corps of Engineers).

AVERAGE DISCHARGE.--45 years, 280 ft³/s (7.930 m³/s), 24.07 in/yr (611 mm/yr), adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 2,600 ft³/s (73.6 m³/s) Dec. 22 (gage height, 5.85 ft or 1.783 m); minimum daily, 7.0 ft³/s (0.20 m³/s) Nov. 13.

Period of record: Maximum discharge, 15,500 ft³/s (439 m³/s) Sept. 22, 1938 (gage height, 17.68 ft or 5.389 m), from rating curve extended above 3,200 ft³/s (90.6 m³/s) on basis of computations of flow over dams at gage heights 16.41 and 17.68 ft (5.002 and 5.389 m); minimum daily, 7.0 ft³/s (0.20 m³/s) Nov. 13, 1973. Maximum discharge since construction of North Sringfield Dam in 1960, 3,550 ft³/s (101 m³/s) Apr. 11, 1962 (gage height, 6.43 ft or 1.960 m); maximum gage height, 7.23 ft (2.204 m) June 30, 1973.

REMARKS.--Records excellent. Flow regulated by mills above station and by North Springfield Reservoir (see p. 214) since November 1960. High flow slightly affected by retarding reservoirs since 1968.

REVISIONS (WATER YEARS).--WSP 756: Drainage area. WSP 781: 1931(M), 1934(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	43	83	158	494	447	267	255	566	255	148	106	66
2	42	135	141	390	420	299	312	528	233	113	73	80
3	55	114	120	339	314	251	529	442	206	214	86	155
4	169	104	119	297	232	203	969	522	199	276	67	535
5	171	88	124	270	200	482	1.590	469	174	206	66	338
6	78	69	239	216	153	962	1.940	406	153	231	69	212
7	58	59	274	204	177	1.300	1.660	540	145	240	73	166
8	46	54	227	216	170	938	1.440	504	129	196	43	122
9	45	43	203	196	160	1.100	1.050	430	106	151	50	102
10	61	44	576	174	160	1.140	766	497	97	103	52	88
11	61	41	465	171	160	413	682	661	101	108	50	74
12	64	20	355	198	160	362	1.050	540	106	94	49	66
13	54	7.0	267	210	158	290	1.180	1.680	95	86	49	71
14	62	118	291	170	158	270	983	1.020	91	74	47	162
15	60	140	439	156	140	267	1.610	647	87	77	41	181
16	50	123	315	179	125	263	1.980	540	79	106	32	137
17	41	176	222	170	127	751	1.500	496	170	79	39	105
18	39	152	206	135	139	566	1.170	453	394	68	55	103
19	40	142	170	126	143	348	1.040	405	287	90	52	93
20	51	118	171	135	118	325	864	270	191	402	46	71
21	69	95	936	140	119	286	717	286	143	181	40	97
22	51	98	1.990	235	179	274	780	282	157	121	39	382
23	43	100	2.210	295	619	282	983	282	142	91	35	268
24	46	99	1.470	299	633	386	990	378	167	88	31	209
25	49	109	559	317	815	437	892	633	121	79	25	157
26	55	115	529	280	362	320	640	416	125	80	32	171
27	45	118	1.650	325	270	299	540	381	157	60	29	161
28	37	172	2.180	613	299	274	480	348	169	76	30	133
29	29	218	1.660	1.050	------	226	411	316	139	104	88	259
30	46	188	841	855	------	244	416	308	134	123	151	545
31	125	------	590	498	------	244	------	270	------	147	92	------
TOTAL	1.871	3.142.0	19.706	9.353	7.157	14.069	29.419	15.516	4.752	4.212	1.737	5.309
MEAN	60.4	105	636	302	256	454	981	501	158	136	56.0	177
MAX	171	218	2.210	1.050	815	1.300	1.980	1.680	394	402	151	545
MIN	29	7.0	119	126	118	203	255	270	79	60	25	66
MEAN†	61.5	105	635	303	257	452	981	500	158	136	55.5	181
CFSM†	.39	.66	4.02	1.92	1.63	2.86	6.21	3.16	1.00	.86	.35	1.15
IN.†	.45	.74	4.64	2.21	1.69	3.30	6.93	3.65	1.11	1.00	.40	1.28

CAL YR 1973 TOTAL 166.861.0 MEAN 457 MAX 2.780 MIN 7.0 MEAN† 457 CFSM† 2.89 IN† 39.28
WTR YR 1974 TOTAL 116.243.0 MEAN 318 MAX 2.210 MIN 7.0 MEAN† 319 CFSM† 2.02 IN† 27.40

† Adjusted for change in contents in North Springfield Reservoir.

01153500 WILLIAMS RIVER AT BROCKWAYS MILLS, VT.

LOCATION.--Lat 43°12'31", long 72°31'05", Windham County, on left bank 25 ft (7.6 m) upstream from highway bridge at Brockways Mills, 4 mi (6.4 km) downstream from Hall Brook, 4.6 mi (7.4 km) upstream from mouth, and 6 mi (9.7 km) northwest of Bellows Falls.

DRAINAGE AREA.--103 mi² (267 km²).

PERIOD OF RECORD.--June 1940 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 430 ft (131 m) from topographic map.

AVERAGE DISCHARGE.--34 years, 167 ft³/s (4.729 m³/s), 22.02 in/yr (559 mm/yr).

EXTREMES.--Current year: Maximum discharge, 4,610 ft³/s (131 m³/s) Dec. 21 (gage height, 9.31 ft or 2.838 m); minimum, 9.8 ft³/s (0.28 m³/s) Aug. 17, 26, 27.

Period of record: Maximum discharge, 8,910 ft³/s (252 m³/s) June 1, 1952 (gage height, 13.39 ft or 4.081 m), from rating curve extended above 3,300 ft³/s (93.5 m³/s) on basis of slope-area measurement at gage height 13.31 ft (4.057 m); minimum not determined, occurred Dec. 11, 1941, during period of ice effect; minimum daily, 3.6 ft³/s (0.10 m³/s) Aug. 27, 1949.

Flood in September 1938 had greatest discharge since at least 1753 (gage height, 22.7 ft or 6.92 m, from floodmarks). Flood in November 1927 reached a stage possibly 2 ft (1 m) higher than that of September 1938 flood because of backwater from milldam, from information by local residents.

REMARKS.--Records good except those for winter period, which are fair. Records of suspended-sediment loads for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1031: 1943-44(P). WSP 1301: 1941-42(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	112	60	303	426	175	222	552	163	48	22	29
2	18	126	47	239	271	179	284	344	143	39	20	63
3	21	75	41	228	220	148	580	278	124	130	19	83
4	30	56	44	190	200	204	1,520	384	120	118	18	150
5	33	45	51	150	160	777	2,140	281	101	99	18	118
6	55	39	139	130	130	729	1,100	239	87	97	17	66
7	33	35	97	125	125	768	641	422	75	61	16	53
8	27	33	70	120	120	705	799	318	66	46	15	45
9	24	33	105	115	115	398	518	253	60	37	14	35
10	22	29	422	120	115	318	457	512	56	37	14	30
11	21	26	201	110	110	247	436	486	53	35	14	27
12	21	29	141	110	110	214	496	423	47	30	12	25
13	20	29	95	105	105	154	526	1,470	50	26	12	27
14	20	29	204	105	105	168	759	579	42	24	14	78
15	20	29	230	110	100	168	1,660	426	46	24	13	44
16	20	40	105	105	96	165	850	343	40	31	11	31
17	20	46	75	100	90	808	649	335	192	24	12	26
18	20	35	75	98	80	398	592	274	246	21	34	36
19	22	33	70	96	77	281	507	228	109	26	20	32
20	23	29	94	93	75	245	401	204	81	88	16	28
21	23	26	1,900	90	73	209	357	191	66	37	14	42
22	22	32	1,330	250	172	214	360	179	78	28	13	173
23	21	33	474	230	714	211	426	179	65	24	12	73
24	20	30	287	210	300	380	446	247	52	23	13	50
25	20	47	201	190	222	300	450	426	47	22	12	42
26	20	53	422	170	196	228	331	259	66	21	10	63
27	20	48	1,680	515	182	214	281	290	98	21	10	51
28	19	111	1,050	732	165	194	253	228	74	23	12	45
29	20	107	616	568	------	170	233	204	55	28	80	203
30	161	76	460	419	------	177	219	199	60	27	81	312
31	114	------	334	394	------	175	------	172	------	28	44	------
TOTAL	948	1,471	11,120	6,520	4,854	9,721	18,493	10,925	2,562	1,323	632	2,080
MEAN	30.6	49.0	359	210	173	314	616	352	85.4	42.7	20.4	69.3
MAX	161	126	1,900	732	714	808	2,140	1,470	246	130	81	312
MIN	18	26	41	90	73	148	219	172	40	21	10	25
CFSM	.30	.48	3.49	2.04	1.68	3.05	5.98	3.42	.83	.41	.20	.67
IN.	.34	.53	4.02	2.35	1.75	3.51	6.68	3.95	.93	.48	.23	.75

CAL YR 1973 TOTAL 96,520 MEAN 264 MAX 5,340 MIN 14 CFSM 2.56 IN 34.86
WTR YR 1974 TOTAL 70,649 MEAN 194 MAX 2,140 MIN 10 CFSM 1.88 IN 25.52

PEAK DISCHARGE (BASE, 2,600 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-21	1930	9.31	4,610	4-5	1930	7.71	3,160
12-27	1200	7.46	2,980	5-13	0230	7.64	3,120

01154000 SAXTONS RIVER AT SAXTONS RIVER, VT.

LOCATION.--Lat 43°08'14", long 72°29'17", Windham County, on right bank 130 ft (40 m) upstream from highway bridge, 0.8 mi (1.3 km) east of Saxtons River, 1.4 mi (2.3 km) upstream from Bundy Brook, and 3.9 mi (6.3 km) upstream from mouth.

DRAINAGE AREA.--72.2 mi² (187.0 km²).

PERIOD OF RECORD.--June 1940 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 390 ft (119 m) from topographic map.

AVERAGE DISCHARGE.--34 years, 117 ft³/s (3.313 m³/s), 22.01 in/yr (559 mm/yr).

EXTREMES.--Current year: Maximum discharge, 4,090 ft³/s (116 m³/s) Dec. 21 (gage height, 9.88 ft or 3.011 m), from rating curve extended as explained below; minimum, 3.9 ft³/s (0.11 m³/s) Aug. 16, 17.

Period of record: Maximum discharge, 7,510 ft³/s (213 m³/s) June 30, 1973 (gage height, 13.26 ft or 4.042 m), from rating curve extended above 2,000 ft³/s (56.6 m³/s) on basis of slope-area measurements at gage heights 10.51, 11.37, and 13.26 ft (3.203, 3.466, and 4.042 m); minimum, 1.9 ft³/s (0.054 m³/s) July 25, 1949; minimum daily, 2.4 ft³/s (0.068 m³/s) Aug. 6, 1955.

Maximum stage since at least 1869, 17.9 ft (5.46 m) in September 1938, from floodmarks (discharge not determined).

REMARKS.--Records good except those for winter period, which are fair. Occasional diurnal fluctuation at low flow prior to 1962; fluctuation more frequent prior to 1946.

REVISIONS (WATER YEARS).--WSP 1301: 1948-49(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	72	38	190	238	115	146	512	111	37	13	22
2	11	74	31	156	163	120	165	268	99	32	11	43
3	12	47	31	146	134	100	289	218	87	66	10	75
4	15	36	32	136	125	130	830	275	84	66	10	201
5	16	32	33	124	101	250	1,270	199	75	70	12	77
6	23	28	71	110	90	350	744	173	66	68	9.6	51
7	18	25	55	100	84	367	424	273	61	48	8.2	46
8	15	24	42	90	80	351	449	201	55	38	7.8	39
9	14	23	61	85	77	223	312	167	51	30	7.2	30
10	13	21	203	90	75	188	280	357	46	49	7.5	25
11	12	19	116	88	74	155	278	348	43	39	6.5	21
12	12	21	81	84	73	139	324	330	40	29	5.8	18
13	12	20	57	81	72	109	354	1,050	42	24	5.6	20
14	13	22	119	78	71	116	508	417	37	22	5.1	45
15	12	20	138	76	68	114	1,170	303	42	22	4.6	30
16	12	21	84	74	66	127	532	250	37	24	4.1	22
17	12	21	64	72	63	583	396	235	128	18	14	17
18	12	19	60	67	60	253	354	190	111	16	42	20
19	14	19	60	64	58	182	300	159	68	18	16	18
20	15	18	84	66	56	162	243	141	60	26	10	17
21	15	17	1,490	70	58	144	218	130	54	20	9.2	31
22	14	20	720	120	92	139	215	122	61	18	7.5	66
23	14	19	308	160	370	138	248	123	49	15	7.2	40
24	13	19	191	150	188	219	309	175	42	15	7.5	30
25	13	26	144	130	149	174	297	270	41	13	6.5	26
26	13	29	244	120	124	144	223	182	51	12	5.6	36
27	12	29	1,030	200	100	133	186	184	61	16	7.5	32
28	12	53	538	422	100	122	167	150	52	18	11	30
29	13	59	340	347	------	109	156	141	42	16	32	77
30	99	45	266	257	------	111	148	135	43	17	63	81
31	79	------	205	242	------	114	------	118	------	18	34	------
TOTAL	572	898	6,936	4,195	3,009	5,681	11,535	7,796	1,839	918	401.0	1,286
MEAN	18.5	29.9	224	135	107	183	385	251	61.3	29.6	12.9	42.9
MAX	99	74	1,490	422	370	583	1,270	1,050	128	70	63	201
MIN	11	17	31	64	56	100	146	118	37	12	4.1	17
CFSM	.26	.41	3.10	1.87	1.48	2.53	5.33	3.48	.85	.41	.18	.59
IN.	.29	.46	3.57	2.16	1.55	2.93	5.94	4.02	.95	.47	.21	.66

CAL YR 1973 TOTAL 66,321.6 MEAN 182 MAX 3,350 MIN 9.6 CFSM 2.52 IN 34.17
WTR YR 1974 TOTAL 45,066.0 MEAN 123 MAX 1,490 MIN 4.1 CFSM 1.70 IN 23.22

PEAK DISCHARGE (BASE, 1,750 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-21	1630	9.88	4,090	4-15	0200	7.32	1,970
12-27	0800	7.23	1,750	5-13	0130	7.49	2,090
4-5	1730	7.65	2,220				

01154500 CONNECTICUT RIVER AT NORTH WALPOLE, N.H.

LOCATION.--Lat 43°07'34", long 72°26'14", Cheshire County, on left bank at North Walpole, 100 ft (30 m) upstream from Saxtons River, 0.7 mi (1.1 km) downstream from Vilas Bridge between Bellows Falls, Vt., and North Walpole, N.H., and at mile 172.5 (kilometre 277.6)

DRAINAGE AREA.--5,493 mi² (14,227 km²), includes that of Saxtons River.

PERIOD OF RECORD.--March 1942 to current year.

GAGE.--Water-stage recorder. Datum of gage is 218.63 ft (66.638 m) above mean sea level.

AVERAGE DISCHARGE.--32 years, 9,208 ft³/s (260.8 m³/s), 22.76 in/yr (578 mm/yr), adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 75,000 ft³/s (2,120 m³/s) Dec. 22 (gage height, 25.84 ft or 7.876 m); minimum daily, 1,440 ft³/s (40.8 m³/s) Aug. 11.
Period of record: Maximum discharge, 97,000 ft³/s (2,750 m³/s) Mar. 27, 1953 (gage height, 30.37 ft or 9.257 m); minimum daily, 115 ft³/s (3.26 m³/s) Aug. 31, 1952, Sept. 2, 1957.
Maximum stage since at least 1750, 43.8 ft (13.35 m) Mar. 19, 1936, from floodmarks.

REMARKS.--Records excellent except those for winter period and period of no gage-height record, which are good. Flow regulated by powerplants and by First Connecticut and Second Connecticut Lakes, Lake Francis, Moore and Comerford Reservoirs (see p. 214), and other reservoirs (combined usable capacity, about 24,800,000,000 ft³ or 702,000,000 m³).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3,810	8,010	9,870	22,500	17,000	10,200	8,090	37,000	18,100	7,010	4,930	3,420
2	5,040	9,040	9,910	16,200	13,000	9,410	9,830	40,000	15,900	7,950	5,970	3,500
3	5,490	8,940	8,360	12,900	12,500	7,990	10,300	38,000	13,000	5,390	2,560	6,560
4	6,840	8,110	8,980	12,400	12,000	9,160	25,800	36,000	13,400	3,430	2,000	10,600
5	7,260	7,930	8,410	12,500	11,500	14,800	52,000	30,000	11,800	7,950	6,000	9,330
6	8,350	8,300	10,000	9,370	8,700	29,900	55,000	28,000	10,700	13,100	6,720	6,390
7	11,000	5,610	12,400	9,130	8,600	30,900	45,000	20,000	9,400	13,200	5,280	3,370
8	9,840	5,010	11,100	9,810	9,000	36,000	40,000	18,500	8,270	9,960	4,580	2,900
9	6,880	4,790	10,600	9,340	9,200	31,200	34,000	19,500	3,490	7,600	2,220	3,560
10	6,740	3,890	11,800	8,340	6,600	22,800	26,000	20,000	7,310	8,940	1,460	3,520
11	6,900	2,340	13,200	8,890	8,700	15,500	22,000	24,000	8,070	11,600	1,440	4,540
12	5,720	3,920	11,600	8,300	9,000	13,700	21,000	23,500	8,230	11,600	2,910	4,730
13	4,820	3,510	10,200	5,000	9,400	11,900	20,500	38,000	5,530	5,390	2,150	5,320
14	2,480	3,320	10,900	6,400	9,200	10,600	21,000	37,000	5,770	4,250	2,160	2,710
15	4,860	4,210	14,600	8,200	8,300	11,500	44,000	32,000	4,590	6,460	2,110	2,020
16	3,570	7,320	14,700	8,000	7,650	11,500	49,000	25,000	3,610	8,050	2,120	4,320
17	4,040	14,800	12,700	8,700	5,790	21,400	43,000	23,000	7,910	6,870	2,020	3,060
18	4,370	13,100	8,970	7,000	6,790	17,500	38,000	22,000	8,630	5,770	1,660	2,530
19	6,180	8,990	7,980	6,600	6,420	14,400	34,000	18,000	11,700	6,620	4,440	2,630
20	3,700	6,400	8,060	5,800	6,790	13,800	30,000	15,500	11,400	4,640	2,540	2,240
21	1,720	8,080	25,300	7,600	6,640	13,200	29,000	13,000	9,410	4,640	3,710	2,560
22	3,370	5,320	64,500	10,000	8,010	12,600	28,000	12,000	6,580	6,210	2,970	8,410
23	5,190	6,900	53,100	10,500	19,700	10,700	35,000	13,000	3,140	5,540	3,290	9,770
24	5,930	7,490	44,600	12,000	20,900	10,200	43,000	25,000	6,090	5,540	2,280	8,090
25	4,860	6,120	33,800	12,500	14,600	12,100	50,000	31,000	6,890	5,640	1,750	5,470
26	4,860	8,340	27,200	12,000	13,000	12,700	45,000	31,000	3,380	4,430	1,780	5,320
27	3,390	8,570	39,600	13,000	10,500	12,600	38,000	31,000	3,020	2,550	2,180	4,790
28	2,930	9,390	45,200	23,000	10,200	10,900	31,000	29,000	4,300	1,620	2,140	2,950
29	5,410	11,500	39,900	22,000	------	9,380	27,000	25,000	5,350	4,440	3,090	4,640
30	6,380	11,000	34,200	17,000	------	7,810	28,000	18,900	3,000	4,740	6,010	8,950
31	6,420	------	26,000	16,500	------	7,750	------	18,400	------	4,820	4,510	------
TOTAL	168,350	220,250	647,740	351,480	289,690	464,100	982,520	792,300	237,970	205,950	98,980	148,200
MEAN	5,431	7,342	20,890	11,340	10,350	14,970	32,750	25,560	7,932	6,644	3,193	4,940
MAX	11,000	14,800	64,500	23,000	20,900	36,000	55,000	40,000	18,100	13,200	6,720	10,600
MIN	1,720	2,340	7,980	5,000	5,790	7,750	8,090	12,000	3,000	1,620	1,440	2,020
MEAN†	4,648	7,901	21,640	10,530	8,355	14,280	35,930	26,090	7,893	6,420	2,799	4,928
CFSM†	.85	1.44	3.94	1.92	1.52	2.60	6.54	4.75	1.44	1.17	.51	.90
IN.†	.98	1.61	4.54	2.21	1.58	3.00	7.30	5.48	1.60	1.35	.59	1.00

CAL YR 1973 TOTAL 5,142,650 MEAN 14,090 MAX 83,600 MIN 1,420 MEAN† 14,150 CFSM† 2.58 IN† 34.98
WTR YR 1974 TOTAL 4,607,530 MEAN 12,620 MAX 64,500 MIN 1,440 MEAN† 12,640 CFSM† 2.30 IN† 31.23

PEAK DISCHARGE (BASE, 44,000 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-22	0315	25.84	75,000	4-16	-	-	**51,000
12-27	2315	19.64	48,200	4-25	-	-	**52,000
4-6	-	*22.05	57,900				

* From-peak-stage indicator.
** About.

† Adjusted for change in contents in all reservoirs from First Connecticut and Second Connecticut Lakes to North Springfield Reservoir on Black River listed on page 214.
NOTE.--No gage-height record Apr. 5 to May 29.

01155000 COLD RIVER AT DREWSVILLE, N.H.

LOCATION.--Lat 43°07'54", long 72°23'23", Cheshire County, on left bank 50 ft (15 m) upstream from bridge on State Highway 123 at Drewsville, 1.0 mi (1.6 km) upstream from Great Brook, 2.7 mi (4.3 km) east of Bellows Falls, Vt., and 3.4 mi (5.5 km) upstream from mouth.

DRAINAGE AREA.--82.7 mi² (214.2 km²).

PERIOD OF RECORD.--June 1940 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 375 ft (114 m) from topographic map.

AVERAGE DISCHARGE.--34 years, 115 ft³/s (3.257 m³/s), 18.88 in/yr (480 mm/yr).

EXTREMES.--Current year: Maximum discharge, 6,710 ft³/s (190 m³/s) Dec. 21 (gage height, 12.30 ft or 3.749 m); minimum, 5.9 ft³/s (0.17 m³/s) Aug. 17.

Period of record: Maximum discharge, 6,710 ft³/s (190 m³/s) Dec. 21, 1973 (gage height, 12.30 ft or 3.749 m), from rating curve extended above 3,400 ft³/s (96.3 m³/s) on basis of computation of flow over dam at gage height 10.29 ft (3.136 m) and slope-area measurement at gage height 12.30 ft (3.749 m); minimum, 1.3 ft³/s (0.037 m³/s) Sept. 23, 1940.

REMARKS.--Records excellent except those for winter period and period of no gage-height record, which are fair. Occasional diurnal fluctuation at low flow caused by sawmill above station; fluctuation more frequent prior to 1945.

REVISIONS (WATER YEARS).--WSP 1431: 1952(P). WRD Mass., N.H., R.I., Vt., 1973: 1951(M), 1969(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	89	95	251	274	137	136	470	109	26	13	21
2	20	92	77	201	217	137	174	400	106	26	12	19
3	21	65	67	173	168	109	271	300	86	54	11	35
4	23	51	64	157	139	143	726	280	72	51	11	180
5	22	43	76	118	109	338	1.150	210	63	54	10	69
6	23	38	166	98	92	367	834	170	58	62	10	44
7	25	35	129	108	92	325	424	180	52	41	9.8	39
8	22	33	99	78	81	318	358	160	48	32	9.4	35
9	21	33	108	65	77	226	286	150	46	27	9.0	28
10	20	37	199	68	74	188	251	350	42	26	9.0	27
11	19	29	151	64	68	151	247	330	39	26	8.6	25
12	33	29	126	60	65	129	291	320	37	24	8.0	23
13	18	29	98	57	61	88	338	800	36	23	7.5	23
14	17	29	208	57	59	99	348	500	31	22	7.2	46
15	17	29	233	66	57	89	1.200	350	26	21	6.7	35
16	16	33	154	60	55	123	800	260	27	21	6.3	28
17	16	37	115	55	53	840	450	250	44	21	6.0	25
18	16	33	87	52	51	353	330	180	47	20	24	23
19	18	31	69	56	50	241	260	130	34	19	21	22
20	18	29	77	54	54	197	210	120	33	20	17	21
21	20	26	3.060	56	60	166	180	110	34	21	15	25
22	18	30	2.090	150	132	157	160	105	40	20	13	86
23	18	31	620	175	518	154	160	100	33	19	11	49
24	17	33	335	181	288	249	200	130	29	18	10	36
25	16	36	234	140	213	201	250	270	27	16	9.2	31
26	16	38	276	119	160	155	200	220	49	16	8.2	30
27	16	39	816	219	126	137	170	200	43	15	7.5	27
28	15	76	768	413	118	115	145	160	35	14	7.5	25
29	16	193	502	452	------	97	130	145	27	14	8.4	38
30	108	123	364	364	------	94	120	137	26	13	23	82
31	113	------	280	302	------	100	------	112	------	13	25	------
TOTAL	779	1.449	11.743	4.469	3.511	6.223	10.799	7.599	1.379	795	354.3	1.197
MEAN	25.1	48.3	379	144	125	201	360	245	46.0	25.6	11.4	39.9
MAX	113	193	3.060	452	518	840	1.200	800	109	62	25	180
MIN	15	26	64	52	50	88	120	100	26	13	6.0	19
CFSM	.30	.58	4.58	1.74	1.51	2.43	4.35	2.96	.56	.31	.14	.48
IN.	.35	.65	5.28	2.01	1.58	2.80	4.86	3.42	.62	.36	.16	.54

CAL YR 1973 TOTAL 65.960.0 MEAN 181 MAX 3.060 MIN 15 CFSM 2.19 IN 29.67
WTR YR 1974 TOTAL 50.297.3 MEAN 138 MAX 3.060 MIN 6.0 CFSM 1.67 IN 22.62

PEAK DISCHARGE (BASE, 1,100 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-21	1700	12.30	6,710	4-5	1900	6.65	1,690
3-17	0500	6.36	1,460	4-15	0345	7.20	2,210

NOTE.--No gage-height record Apr. 15 to May 29.

CONNECTICUT RIVER BASIN

01155200 SACKETTS BROOK NEAR PUTNEY, VT.

LOCATION.--Lat 42°59'57", long 72°31'59", Windham County, on left bank 50 ft (15 m) upstream from highway bridge on Saxtons River Road and 1.8 mi (2.9 km) north of Putney.

DRAINAGE AREA.--10.0 mi² (25.9 km²).

PERIOD OF RECORD.--March 1963 to September 1974 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 430 ft (131 m) from topographic map.

AVERAGE DISCHARGE.--11 years, 15.9 ft³/s (0.450 m³/s), 21.59 in/yr (548 mm/yr).

EXTREMES.--Current year: Maximum discharge, 487 ft³/s (13.8 m³/s) Dec. 21 (gage height, 6.15 ft or 1.875 m); minimum, 1.8 ft³/s (0.051 m³/s) Aug. 25-27.
Period of record: Maximum discharge, 903 ft³/s (25.6 m³/s) June 30, 1973 (gage height, 8.13 ft or 2.478 m), from rating curve extended above 460 ft³/s (13.0 m³/s); minimum, 0.63 ft³/s (0.018 m³/s) Sept. 20, 21, 1964.

REMARKS.--Records good except those for winter period, which are fair. Recording rain gage at station since April 1964 (no winter records).

REVISIONS.--WRD Mass., N.H., R.I., Vt., 1973: 1968-71(P), 1972(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.7	7.8	5.6	31	35	21	32	43	19	5.6	3.3	3.3
2	3.0	6.4	5.3	28	27	18	35	30	16	4.9	3.0	6.8
3	3.3	4.9	4.9	25	21	17	48	32	15	9.2	3.0	10
4	3.3	4.2	4.9	22	17	25	72	29	14	6.4	3.0	18
5	3.6	3.9	5.6	20	14	41	109	26	13	15	2.7	6.4
6	3.6	3.9	8.3	17	13	36	60	30	12	9.7	2.7	4.9
7	3.3	3.9	6.0	15	12	38	45	32	11	6.4	2.4	5.6
8	3.3	3.9	5.3	14	11	33	46	27	9.2	6.0	2.4	4.7
9	3.0	3.6	10	13	11	27	43	28	8.7	5.3	2.4	4.2
10	3.0	3.6	15	12	10	26	39	51	8.3	6.4	2.4	3.9
11	3.0	3.6	9.2	12	10	24	43	34	7.3	5.3	2.4	3.9
12	3.0	3.3	7.3	11	10	22	47	107	6.8	4.9	2.4	3.8
13	3.0	3.3	6.8	11	9.8	22	51	59	6.4	4.6	2.2	4.3
14	3.0	3.3	15	10	9.6	20	53	45	6.0	4.2	2.2	5.7
15	3.0	3.3	11	10	9.4	19	117	40	6.0	4.2	2.0	4.1
16	3.0	3.3	8.3	9.8	9.1	34	51	35	6.0	4.2	2.0	3.9
17	3.0	3.3	7.6	9.5	8.5	108	44	36	20	3.6	2.7	3.6
18	3.3	3.3	7.2	9.2	8.0	40	41	30	9.7	3.3	3.6	4.7
19	4.2	3.3	7.0	9.0	8.0	34	37	27	7.3	3.3	2.7	4.1
20	3.9	3.3	7.0	9.0	8.4	31	34	26	6.8	3.6	2.4	8.2
21	3.3	3.3	211	10	8.4	32	32	24	8.7	3.3	2.2	16
22	3.3	3.6	66	24	20	31	31	24	8.7	3.0	2.2	16
23	3.3	3.6	38	22	40	32	32	34	6.4	3.0	2.0	7.4
24	3.3	3.6	30	22	26	44	36	35	5.6	3.0	2.0	6.0
25	3.3	4.2	29	19	20	33	34	45	4.9	3.0	2.0	5.6
26	3.3	4.6	34	18	18	30	30	29	6.8	3.0	1.8	7.0
27	3.0	5.3	104	40	19	28	27	30	7.3	2.7	2.2	5.7
28	2.7	8.3	65	46	18	26	26	26	5.3	2.7	3.6	5.6
29	3.0	9.7	47	53	------	25	24	24	4.9	2.7	4.2	22
30	13	6.4	42	39	------	23	41	22	4.9	3.6	7.3	16
31	8.3	------	33	38	------	25	------	19	------	3.6	4.2	------
TOTAL	114.3	132.0	856.3	628.5	431.2	965	1,360	1,077	272.0	149.7	85.6	220.6
MEAN	3.69	4.40	27.6	20.3	15.4	31.1	45.3	34.7	9.07	4.83	2.76	7.35
MAX	13	9.7	211	53	40	108	117	107	20	15	7.3	22
MIN	2.7	3.3	4.9	9.0	8.0	17	24	19	4.9	2.7	1.8	3.3
CFSM	.37	.44	2.76	2.03	1.54	3.11	4.53	3.47	.91	.48	.28	.74
IN.	.43	.49	3.19	2.34	1.60	3.59	5.06	4.01	1.01	.56	.32	.82

CAL YR 1973 TOTAL 8,653.9 MEAN 23.7 MAX 268 MIN 2.7 CFSM 2.37 IN 32.19
WTR YR 1974 TOTAL 6,292.2 MEAN 17.2 MAX 211 MIN 1.8 CFSM 1.72 IN 23.41

PEAK DISCHARGE (BASE, 210 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-21	1430	6.15	487				
3-17	0245	4.81	251				
4-15	0115	5.34	339				
5-12	1700	5.41	351				

01155300 FLOOD BROOK NEAR LONDONDERRY, VT.

LOCATION.--Lat 43°14'11", long 72°51'23", Windham County, on left bank 20 ft (6 m) downstream from bridge on State Highway 11, 0.9 mi (1.4 km) upstream from Burnt Meadow Brook, and 2.5 mi (4.0 km) west of Londonderry.

DRAINAGE AREA.--9.25 mi² (23.96 km²).

PERIOD OF RECORD.--February 1963 to September 1974 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 1,300 ft (396 m) from topographic map.

AVERAGE DISCHARGE.--11 years, 21.4 ft³/s (0.606 m³/s), 31.42 in/yr (798 mm/yr).

EXTREMES.--Current year: Maximum discharge, 429 ft³/s (12.1 m³/s) Dec. 21 (gage height, 5.14 ft or 1.567 m), from rating curve extended as explained below; maximum gage height, 6.48 ft (1.975 m) Mar. 5 (ice jam); minimum discharge, 1.1 ft³/s (0.031 m³/s) Oct. 1-3.

Period of record: Maximum discharge, 1,800 ft³/s (51.0 m³/s) June 30, 1973 (gage height, 7.15 ft or 2.179 m), from rating curve extended above 220 ft³/s (6.23 m³/s) on basis of culvert measurements at gage heights 6.33 ft and 7.15 ft (1.929 and 2.179 m); maximum gage height, 7.44 ft (2.268 m), from peak-stage indicator, Mar. 18, 1968 (ice jam); minimum disharge, 0.19 ft³/s (0.005 m³/s) Aug. 10-12, 1964.

REMARKS.--Records good except those for winter period, which are fair, and those for period of no gage-height record, which are poor. Occasional regulation by small pond above station. Recording rain gage at station since April 1964 (no winter records).

REVISIONS (WATER YEARS).--WRD Mass., N.H., R.I., Vt., 1972: 1964(M), 1966-67(M), 1968-69(P), 1970(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.1	27	14	31	32	18	11	97	10	9.2	6.4	8.6
2	1.1	24	12	26	23	17	17	49	13	7.7	4.8	21
3	2.4	15	11	22	20	15	43	39	12	48	4.3	58
4	3.5	10	11	19	18	45	75	58	11	31	3.9	96
5	5.3	8.1	22	16	16	140	230	37	9.2	39	7.2	34
6	6.9	6.7	48	14	14	97	120	31	7.7	23	4.8	17
7	3.6	5.9	25	13	13	90	65	60	6.7	15	3.6	14
8	2.5	5.3	17	12	13	81	71	46	5.7	10	3.1	11
9	2.2	5.1	20	12	12	47	44	35	5.0	7.7	3.1	8.6
10	1.9	4.8	42	11	12	33	40	49	4.5	14	4.6	6.9
11	1.9	4.4	27	11	11	29	36	48	4.8	9.5	3.1	6.0
12	1.8	3.9	19	10	11	23	39	51	4.3	7.4	2.7	5.0
13	1.8	4.2	17	10	10	20	40	150	6.0	5.7	2.3	14
14	2.2	4.6	25	10	10	19	73	63	4.1	5.0	2.0	42
15	2.3	4.4	24	10	9.2	19	253	44	3.6	8.9	1.9	16
16	2.0	15	21	9.8	9.2	20	110	33	3.7	11	1.8	11
17	2.2	11	16	9.6	9.5	65	90	37	42	6.4	2.5	8.9
18	2.1	7.9	14	9.4	9.5	38	97	28	33	4.6	8.3	14
19	2.5	6.9	14	9.2	8.9	23	77	21	14	18	3.4	10
20	2.8	5.8	17	9.0	8.8	19	57	18	11	22	2.7	11
21	3.0	5.4	210	9.5	8.6	17	57	15	11	10	2.2	45
22	2.7	6.5	130	25	25	17	77	14	13	6.9	2.0	50
23	2.7	6.9	98	21	60	17	110	22	10	5.2	1.8	23
24	2.1	6.3	70	19	40	23	66	39	7.4	5.2	1.9	17
25	2.0	14	50	17	29	22	50	52	7.7	4.8	2.1	15
26	2.0	12	80	17	23	18	37	30	11	4.5	1.8	21
27	2.1	14	170	30	21	14	29	28	19	4.8	2.0	14
28	2.0	29	110	70	19	13	24	22	14	5.5	5.0	16
29	2.0	29	70	50	------	11	23	20	9.8	4.5	42	109
30	21	18	50	35	------	10	23	19	12	16	31	87
31	13	------	40	33	------	10	------	22	------	9.5	15	------
TOTAL	106.7	321.1	1,494	600.5	495.7	1,030	2,084	1,277	326.2	380.0	183.3	810.0
MEAN	3.44	10.7	48.2	19.4	17.7	33.2	69.5	41.2	10.9	12.3	5.91	27.0
MAX	21	29	210	70	60	140	253	150	42	48	42	109
MIN	1.1	3.9	11	9.0	8.6	10	11	14	3.6	4.5	1.8	5.0
CFSM	.37	1.16	5.21	2.10	1.91	3.59	7.51	4.45	1.18	1.33	.64	2.92
IN.	.43	1.29	6.01	2.41	1.99	4.14	8.38	5.14	1.31	1.53	.74	3.26

CAL YR 1973 TOTAL 10,621.35 MEAN 29.1 MAX 596 MIN .77 CFSM 3.15 IN 42.72
WTR YR 1974 TOTAL 9,108.50 MEAN 25.0 MAX 253 MIN 1.1 CFSM 2.70 IN 36.63

PEAK DISCHARGE (BASE, 300 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-21	1515	5.14	429				
4-5	1815	4.78	306				
4-15	0200	4.83	322				

NOTE.--No gage-height record Dec. 24 to Feb. 5.

01155500 WEST RIVER AT JAMAICA, VT.

LOCATION.--Lat 43°06'32", long 72°46'33", Windham County, on left bank 0.2 mi (0.3 km) upstream from highway bridge at Jamaica, 0.4 mi (0.6 km) upstream from Ball Mountain Brook, and 2.8 mi (4.5 km) downstream from Ball Mountain Dam, and at mile 26.2 (kilometre 42.2).

DRAINAGE AREA.--179 mi^2 (464 km^2).

PERIOD OF RECORD.--October 1946 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 640 ft (195 m) from topographic map.

AVERAGE DISCHARGE.--28 years, 353 ft^3/s (9.997 m^3/s), 26.78 in/yr (680 mm/yr), adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 4,560 ft^3/s (129 m^3/s) Dec. 27 (gage height, 9.18 ft or 2.798 m); minimum, 10 ft^3/s (0.28 m^3/s) July 23; minimum daily, 23 ft^3/s (0.65 m^3/s) Oct. 15-17.

Period of record: Maximum discharge, 29,500 ft^3/s (835 m^3/s) Dec. 31, 1948 (gage height, 14.87 ft or 4.532 m), from rating curve extended above 9,800 ft^3/s (278 m^3/s), verified by slope-area measurement of peak flow; minimum, 0.94 ft^3/s (0.027 m^3/s) Sept. 23-25, 1968; minimum daily, 0.94 ft^3/s (0.027 m^3/s) Sept. 23, 24, 1968. Maximum discharge since construction of Ball Mountain Dam in 1961, 5,020 ft^3/s (142 m^3/s) Apr. 24, 1962 (gage height, 8.75 ft or 2.667 m); maximum gage height, 9.46 ft (2.883 m) Feb. 4, 1970 (ice jam).

REMARKS.--Records excellent except those for winter period, which are fair. Flow regulated by Ball Mountain Reservoir since 1961 (see p. 214).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27	280	225	535	620	250	263	730	290	223	67	144
2	27	487	174	350	430	280	268	1,070	262	195	83	209
3	28	257	111	270	400	280	336	902	201	259	119	469
4	28	189	107	275	340	300	1,080	842	133	419	118	1,260
5	29	135	149	245	270	800	2,590	827	133	485	117	1,390
6	30	107	401	250	180	1,290	3,270	634	132	567	72	849
7	29	86	592	240	220	2,000	2,540	576	130	542	44	377
8	29	79	498	220	200	1,970	1,820	589	130	338	44	185
9	29	72	274	220	180	1,010	998	506	128	127	44	154
10	29	58	567	210	160	686	316	334	128	84	43	129
11	29	44	765	210	180	410	566	1,030	103	77	41	51
12	29	35	466	200	200	340	754	1,170	85	75	38	51
13	399	72	240	190	190	220	922	2,080	85	109	38	72
14	527	72	235	200	180	216	1,010	2,140	85	127	36	262
15	23	83	309	210	170	162	1,970	1,290	71	127	34	283
16	23	101	372	190	160	125	2,670	585	59	125	34	235
17	23	171	372	165	150	467	1,630	534	126	124	36	125
18	140	165	310	160	150	470	1,090	902	339	123	36	85
19	207	144	210	160	180	401	1,110	259	417	124	35	60
20	170	88	200	160	200	339	1,090	84	403	125	35	62
21	91	60	620	180	250	334	832	85	313	149	35	170
22	41	90	1,400	200	350	293	558	85	253	161	35	313
23	38	100	2,070	400	740	260	886	256	144	135	35	348
24	36	63	1,750	700	830	280	1,340	512	87	154	35	347
25	33	117	1,270	850	900	290	1,230	803	88	109	35	436
26	32	166	1,390	750	600	290	928	877	93	76	35	542
27	32	180	3,540	660	370	290	624	846	98	63	35	431
28	33	310	3,970	1,000	270	285	464	565	176	63	36	368
29	32	403	2,170	1,490	-------	280	431	408	229	63	44	370
30	140	315	1,030	991	-------	271	430	363	228	63	84	677
31	476	-------	616	680	-------	265	-------	336	-------	64	180	-------
TOTAL	2,839	4,529	26,403	12,561	9,070	15,154	34,016	22,220	5,149	5,475	1,703	10,454
MEAN	91.6	151	852	405	324	489	1,134	717	172	177	54.9	348
MAX	527	487	3,970	1,490	900	2,000	3,270	2,140	417	567	180	1,390
MIN	23	35	107	160	150	125	263	84	59	63	34	51
MEAN†	67.6	147	850	409	324	501	1,165	706	177	175	76.6	353
CFSM†	.38	.82	4.75	2.28	1.81	2.80	6.51	3.94	.99	.98	.43	1.97
IN.†	.44	.92	5.48	2.63	1.89	3.23	7.27	4.55	1.10	1.13	.49	2.20

CAL YR 1973 TOTAL 190,306 MEAN 521 MAX 3,970 MIN 23 MEAN† 521 CFSM† 2.91 IN† 39.52
WTR YR 1974 TOTAL 149,573 MEAN 410 MAX 3,970 MIN 23 MEAN† 413 CFSM† 2.31 IN† 31.31

† Adjusted for change in contents in Ball Mountain Reservoir.

01156000 WEST RIVER AT NEWFANE, VT.

LOCATION.--Lat 42°59'43", long 72°38'13", Windham County, on left bank 400 ft (100 m) downstream from highway bridge, 1.0 mi (1.6 km) northeast of Newfane, and at mile 12.7 (kilometre 20.4).

DRAINAGE AREA.--308 mi^2 (798 km^2).

PERIOD OF RECORD.--September 1919 to September 1923, October 1928 to current year.

GAGE.--Water-stage recorder. Datum of gage is 384.21 ft (117.107 m) above mean sea level. Prior to June 27, 1931, nonrecording gage at site 600 ft (200 m) upstream and June 27, 1931, to Aug. 21, 1972, water-stage recorder on right bank 600 ft (200 m) downstream from highway bridge at same datum.

AVERAGE DISCHARGE.--50 years, 614 ft^3/s (17.39 m^3/s), 27.07 in/yr (688 mm/yr), adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 7,900 ft^3/s (224 m^3/s) Dec. 28 (gage height, 9.25 ft or 2.819 m); minimum, 15 ft^3/s (0.42 m^3/s) Nov. 13; minimum daily, 23 ft^3/s (0.65 m^3/s) Oct. 12.

Period of record: Maximum discharge, 52,300 ft^3/s (1,480 m^3/s) Sept. 21, 1938 (gage height, 22.81 ft or 6.952 m, from floodmarks), from rating curve extended above 20,000 ft^3/s (566 m^3/s) on basis of contracted-opening measurement at gage height 19.3 ft (5.88 m) and slope-area measurements at gage heights 19.46 and 22.81 ft (5.931 and 6.952 m); minimum, 7.6 ft^3/s (0.22 m^3/s) Aug. 24, 25, 26, 1962; minimum daily, 8.2 ft^3/s (0.23 m^3/s) Aug. 25, 1962. Maximum discharge since construction of Ball Mountain and Townshend Reservoirs in 1961, 9,410 ft^3/s (266 m^3/s) Apr. 10, 1969 (gage height, 9.77 ft or 2.978 m).

Maximum discharge since at least 1869, that of Sept. 21, 1938. Flood of Nov. 3, 1927, reached a discharge of 45,000 ft^3/s or 1,270 m^3/s (gage height, 23.0 ft or 7.01 m, from floodmarks, at nonrecording-gage site), from rating curve extended above 20,000 ft^3/s (566 m^3/s) on basis of computation of peak flow over dam at West Dummerston, about 5 mi (8 km) downstream, adjusted for flow from intervening area.

REMARKS.--Records excellent above 200 ft^3/s (5.66 m^3/s) and good below except those for winter period which are fair. Flow regulated since 1961 by Ball Mountain Reservoir and Townshend Reservoir 6.8 mi (10.9 km) upstream (see p. 214).

REVISIONS (WATER YEARS).--WSP 756: Drainage area. WSP 1231: 1922-23, 1929-31(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	49	496	344	1,020	1,270	491	449	1,440	517	298	92	219
2	49	804	293	780	953	496	507	1,760	458	283	89	233
3	49	455	210	462	750	487	761	1,480	408	346	116	471
4	49	347	165	577	763	486	2,470	1,450	296	592	131	1,760
5	49	262	214	605	344	1,310	5,080	1,330	252	543	139	1,890
6	49	214	592	491	252	2,340	6,240	1,070	247	732	135	1,230
7	49	178	824	387	280	3,020	3,150	1,220	228	643	74	596
8	74	152	669	357	310	3,550	1,830	1,150	214	483	61	302
9	116	148	502	360	315	1,860	3,000	1,020	205	247	59	302
10	86	139	915	360	305	1,150	2,470	1,000	196	161	59	223
11	43	131	1,180	350	276	839	1,060	1,840	178	161	59	66
12	23	109	820	350	333	605	1,420	1,660	139	131	54	80
13	387	24	470	350	331	469	1,620	4,120	128	124	49	83
14	442	101	388	320	321	399	1,820	3,770	120	152	47	291
15	169	112	619	290	291	378	3,740	2,190	120	161	45	384
16	41	135	510	320	283	323	4,730	1,450	98	161	41	344
17	38	200	410	370	228	1,180	3,850	708	223	156	38	210
18	36	223	340	330	219	1,010	1,990	1,420	571	148	128	182
19	38	210	280	300	210	793	1,900	873	572	148	83	135
20	148	173	295	300	307	618	1,750	407	508	197	59	124
21	161	98	1,870	280	296	580	1,530	345	458	182	49	228
22	83	109	3,580	350	325	567	997	290	406	186	45	531
23	64	156	3,790	469	1,220	489	1,440	210	328	186	45	497
24	57	128	3,060	1,060	1,280	564	2,080	732	156	159	45	445
25	57	135	2,860	1,640	1,590	587	2,060	1,320	131	167	45	452
26	57	242	2,250	1,410	1,390	532	1,520	1,310	173	112	41	644
27	54	252	4,630	1,190	710	515	1,150	1,240	219	98	41	588
28	54	386	6,680	1,910	447	484	878	996	238	95	45	465
29	54	547	5,920	2,920	------	447	762	620	301	89	64	566
30	252	488	2,950	1,840	------	451	739	626	304	89	173	970
31	609	------	1,300	1,290	------	433	------	531	------	92	228	------
TOTAL	3,486	7,154	48,930	23,038	15,599	27,453	62,993	39,578	8,392	7,322	2,379	14,511
MEAN	112	238	1,578	743	557	886	2,100	1,277	280	236	76.7	484
MAX	609	804	6,680	2,920	1,590	3,550	6,240	4,120	572	732	228	1,890
MIN	23	24	165	280	210	323	449	210	98	89	38	66
MEAN†	96.1	234	1,580	743	557	898	2,131	1,265	286	234	99.2	490
CFSM†	.31	.76	5.13	2.41	1.81	2.92	6.92	4.11	.93	.76	.32	1.59
IN.†	.36	.85	5.91	2.78	1.88	3.36	7.72	4.73	1.04	.88	.37	1.77

CAL YR 1973 TOTAL 338,276 MEAN 927 MAX 6,680 MIN 23 MEAN† 927 CFSM† 3.01 IN† 40.86
WTR YR 1974 TOTAL 260,835 MEAN 715 MAX 6,680 MIN 23 MEAN† 718 CFSM† 2.33 IN† 31.67

† Adjusted for change in contents in Ball Mountain and Townshend Reservoirs.

01157000 ASHUELOT RIVER NEAR GILSUM, N.H.

LOCATION.--Lat 43°02'21", long 72°16'14", Cheshire County, on right bank 50 ft (15 m) downstream from White Brook, 60 ft (18 m) upstream from stone-arch bridge just off Keene-Newport road, 0.7 mi (1.1 km) downstream from Gilsum, and at mile 43.4 (kilometre 69.8).

DRAINAGE AREA.--71.1 mi² (184.1 km²).

PERIOD OF RECORD.--August 1922 to current year.

GAGE.--Water-stage recorder. Datum of gage is 772.86 ft (235.568 m) above mean sea level (levels by Corps of Engineers); prior to Oct. 1, 1964, datum was 1.00 ft (0.305 m) higher.

AVERAGE DISCHARGE.--52 years, 124 ft³/s (3.512 m³/s), 23.68 in/yr (601 mm/yr).

EXTREMES.--Current year: Maximum discharge, 4,710 ft³/s (133 m³/s) Dec. 21 (gage height, 10.84 ft or 3.304 m), from rating curve extended above 1,100 ft³/s (31.2 m³/s) on basis of slope area measurement of peak flow; minimum, 2.8 ft³/s (0.079 m³/s) Aug. 15, 16, 17, 24-27.

Period of record: Maximum discharge, 5,220 ft³/s (148 m³/s) Sept. 21, 1938 (gage height, 12.24 ft or 3.731 m in gage well, present datum), from rating curve extended above 2,000 ft³/s (56.6 m³/s) on basis of float measurements at gage heights 11.66 and 11.72 ft (3.554 and 3.572 m) and slope-area measurement at gage height 12.24 ft or 3.731 m (all at present datum); maximum gage height, 13.80 ft (4.206 m) present datum, Mar. 19, 1936; minimum discharge, about 1 ft³/s (0.028 m³/s) Oct. 6, 1922, July 10, 1923, Nov. 14, 1952.

Maximum discharge since at least 1859, that of Sept. 21, 1938.

REMARKS.--Records good except those for winter period and period of no gage-height record, which are fair. Some regulation by reservoir above station. Prior to 1938, diurnal fluctuation caused by powerplant above station.

REVISIONS (WATER YEARS).--WSP 661: Drainage area. WSP 781: 1934(M). WSP 1231: 1923-27(M), 1928, 1929-30(M), 1931, 1932(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	120	130	270	282	112	101	333	116	23	9.0	5.5
2	9.9	131	102	222	235	110	130	376	113	20	8.6	17
3	10	111	81	184	170	97	197	302	97	25	8.3	35
4	11	83	68	155	150	105	516	268	82	34	7.8	127
5	11	62	88	115	110	208	991	228	69	45	7.4	137
6	12	50	204	95	80	320	1,050	190	61	79	7.0	112
7	12	42	259	80	80	330	662	174	55	68	5.9	90
8	11	37	170	70	72	333	445	158	42	51	6.9	70
9	11	35	152	62	68	270	370	130	38	41	5.4	53
10	11	32	224	58	64	217	292	204	34	36	4.1	42
11	11	30	246	55	60	159	267	370	32	30	3.8	34
12	11	28	215	52	57	125	266	367	27	24	12	27
13	11	27	171	50	54	96	382	705	24	29	7.1	26
14	10	27	187	50	52	89	318	573	21	17	4.2	30
15	10	27	295	56	50	79	951	420	19	16	3.2	32
16	10	29	273	52	48	92	842	306	18	16	3.0	27
17	9.5	30	220	49	46	567	937	251	38	15	4.2	23
18	9.6	30	170	47	45	477	390	210	35	14	10	86
19	9.6	29	125	46	45	362	302	186	33	14	5.8	22
20	10	28	120	45	47	262	244	131	36	14	3.8	21
21	10	26	2,110	50	52	191	202	110	38	13	4.2	30
22	11	25	2,480	110	75	173	176	98	49	13	6.4	78
23	11	27	1,120	168	470	143	173	92	40	12	7.8	68
24	11	25	519	183	390	166	192	113	33	12	4.5	48
25	11	20	322	144	260	185	219	222	29	11	2.8	30
26	11	31	280	120	181	148	190	212	37	11	2.8	29
27	11	36	[illegible]	168	145	125	166	189	36	10	3.9	27
28	10	61	[illegible]	430	121	107	166	162	36	10	5.5	25
29	9.7	109	[illegible]	476	------	96	130	166	33	10	5.5	48
30	63	160	[illegible]	410	------	86	120	130	28	9.7	8.5	78
31	120	------	367	329	------	88	------	121	------	9.6	9.7	------
TOTAL	480.1	1,512	13,152	[illegible]	3,525	[illegible]	[illegible]	[illegible]	1,238	923.1	185.6	[illegible]
MEAN	15.5	50.4	424	142	126	190	362	248	41.3	29.8	5.99	52.7
MAX	120	160	2,480	476	470	567	1,050	705	116	79	12	137
MIN	9.5	20	68	45	45	79	101	92	18	9.6	2.8	5.5
CFSM	.22	.71	5.96	2.00	1.77	2.67	5.08	3.48	.58	.42	.08	.74
IN.	.25	.79	6.88	2.30	1.84	3.08	5.67	4.00	.65	.48	.09	.83

CAL YR 1973 TOTAL [illegible] MEAN 183 MAX 2,480 MIN [illegible] CFSM 2.57 IN [illegible]
WTR YR 1974 TOTAL [illegible] MEAN 138 MAX 2,480 MIN 2.8 CFSM 1.94 IN [illegible]

PEAK DISCHARGE (BASE, 1,600 FT³/S)

NOTE.--No gage-height record Sept. [illegible].

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-21	[illegible]	10.84	4,710				
[illegible]	[illegible]	[illegible]	[illegible]				
[illegible]	[illegible]	[illegible]	[illegible]				

01158000 ASHUELOT RIVER BELOW SURRY MOUNTAIN DAM, NEAR KEENE, N.H.

LOCATION.--Lat 42°59'40", long 72°18'40", Cheshire County, on right bank 600 ft (200 m) downstream from Surry Mountain Dam, 2.5 mi (4.0 km) upstream from Sturtevant Brook, 4.5 mi (7.2 km) north of Keene, and at mile 34.0 (kilometre 54.7).

DRAINAGE AREA.--101 mi² (262 km²).

PERIOD OF RECORD.--September 1945 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 480.00 ft (146.304 m) above mean sea level (Corps of Engineers bench mark).

AVERAGE DISCHARGE.--29 years, 170 ft³/s (4.814 m³/s), 22.86 in/yr (581 mm/yr), adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 1,100 ft³/s (31.2 m³/s) Jan. 4 (gage height, 9.02 ft or 2.749 m); minimum daily, 5.2 ft³/s (0.15 m³/s) Aug. 15, 16.
Period of record: Maximum discharge, 1,320 ft³/s (37.4 m³/s) Oct. 28, 1959 (gage height, 9.60 ft or 2.926 m); minimum daily, 0.4 ft³/s (0.011 m³/s) Sept. 17, 1964.

REMARKS.--Records excellent above 50 ft³/s (1.42 m³/s) and good below. Flow regulated by Surry Mountain Lake (see p. 214).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	30	19	106	987	446	174	151	276	181	42	13	11
2	34	18	124	1,010	339	173	186	403	174	37	12	13
3	37	50	135	1,070	284	172	225	397	158	38	11	23
4	33	92	183	1,070	217	129	414	364	138	41	9.9	98
5	38	107	180	1,040	130	168	747	321	120	45	9.2	144
6	45	105	222	650	100	296	909	282	104	64	8.8	142
7	48	104	277	290	124	408	920	260	92	76	8.5	126
8	47	83	293	162	136	453	867	241	80	73	8.3	107
9	52	70	245	96	114	450	708	216	70	65	7.9	86
10	27	56	225	70	100	486	478	229	62	58	7.6	69
11	16	43	273	120	100	247	373	355	56	48	6.4	56
12	16	43	296	142	100	171	359	486	50	48	5.9	47
13	16	43	292	103	99	161	378	664	46	36	5.5	42
14	16	43	286	86	99	144	392	739	41	29	5.5	48
15	15	43	292	86	82	144	645	620	36	26	5.2	49
16	15	43	299	108	74	128	841	502	33	26	5.2	46
17	15	42	300	117	74	259	853	396	41	22	6.0	38
18	14	42	298	117	75	573	715	337	52	20	6.9	35
19	14	42	275	105	75	712	481	282	51	19	7.6	33
20	14	42	270	86	75	639	384	234	50	20	7.8	31
21	14	30	191	86	75	415	320	200	53	19	7.3	37
22	14	31	220	122	94	317	277	174	70	18	7.0	66
23	15	31	623	190	244	270	255	156	71	17	6.9	81
24	16	31	860	220	412	261	242	159	62	16	7.2	88
25	16	31	915	220	458	273	274	227	51	16	7.2	76
26	15	31	986	220	390	254	247	271	52	15	6.5	71
27	16	32	977	225	286	220	246	260	55	15	6.2	63
28	16	32	856	317	197	156	220	246	56	15	6.6	55
29	16	90	892	570	------	121	206	223	51	14	6.9	62
30	16	75	883	785	------	168	190	200	46	14	6.6	57
31	16	------	951	912	------	163	------	192	------	13	11	------
TOTAL	788	1,517	12,761	18,938	[illegible]	8,581	13,555	9,066	2,290	983	230.0	1,980
MEAN	[illegible]	50.6	412	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
MAX	52	107	986	1,070	458	712	920	739	181	76	13	144
MIN	14	18	106	70	74	121	151	156	33	13	5.2	11
AC-FT†	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
CFSM†	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
IN.†	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

CAL YR 1973 TOTAL [illegible] MEAN [illegible] MAX [illegible] MIN [illegible] MEAN† [illegible] CFSM† [illegible] IN† [illegible]
WTR YR 1974 TOTAL [illegible] MEAN [illegible] MAX [illegible] MIN [illegible] MEAN† [illegible] CFSM† [illegible] IN† [illegible]

† Adjusted for change in contents in Surry Mountain Lake.

CONNECTICUT RIVER BASIN

01158600 OTTER BROOK BELOW OTTER BROOK DAM, NEAR KEENE, N.H.

LOCATION.--Lat 42°56'45", long 72°14'14", Cheshire County, on right bank 450 ft (150 m) downstream from Otter Brook Dam, 2 mi (3 km) northeast of Keene, 2.4 mi (3.9 km) upstream from Minnewawa Brook, and 4.9 mi (7.9 km) upstream from mouth.

DRAINAGE AREA.--47.2 mi² (122.2 km²).

PERIOD OF RECORD.--May 1958 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 658.65 ft (200.757 m) above mean sea level (Corps of Engineers bench mark).

AVERAGE DISCHARGE.--16 years, 74.7 ft³/s (2.116 m³/s), 21.49 in/yr (546 mm/yr), adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 616 ft³/s (17.4 m³/s) Dec. 29 (gage height, 8.49 ft or 2.588 m); minimum, 1.6 ft³/s (0.045 m³/s) Aug. 16, 17; minimum daily, 1.6 ft³/s (0.045 m³/s) Aug. 16.

Period of record: Maximum discharge, 685 ft³/s (19.4 m³/s) Apr. 20, 1959 (gage height, 8.59 ft or 2.618 m); maximum gage height, 8.61 ft (2.624 m) Apr. 26, 1972; minimum discharge, 0.1 ft³/s (0.003 m³/s) Nov. 28, 1959; minimum daily, 0.3 ft³/s (0.008 m³/s) Sept. 27 to Oct. 2, Oct. 9, 10, 12-20, 1964.

REMARKS.--Records good except those for period of no gage-height record, which are fair. Flow regulated by Otter Brook Lake (see p.214).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.9	99	60	556	210	72	65	198	77	19	4.2	10
2	5.6	90	50	524	139	72	65	203	81	17	4.0	11
3	5.3	68	42	486	102	72	98	156	68	18	4.0	17
4	5.3	51	38	381	102	72	210	145	58	19	3.8	80
5	6.2	40	36	150	83	125	370	115	41	19	4.4	70
6	6.5	34	112	70	73	165	342	97	29	28	4.2	44
7	6.5	29	170	70	72	135	349	97	26	26	3.3	36
8	6.8	27	133	70	72	123	342	94	26	20	3.0	33
9	6.5	24	106	61	63	121	318	86	26	17	2.7	29
10	6.8	22	127	59	58	108	294	121	26	15	2.4	25
11	6.2	19	139	68	48	84	230	208	24	13	2.1	21
12	6.2	19	139	72	44	77	203	170	22	9.1	2.1	20
13	6.2	19	119	57	44	77	203	346	20	7.7	2.1	23
14	5.9	19	104	46	44	65	203	273	18	8.3	2.2	35
15	5.9	19	104	46	44	60	395	195	17	9.1	1.9	40
16	5.1	20	106	46	44	67	479	156	15	8.7	1.6	26
17	4.9	23	145	46	44	208	346	143	23	8.0	2.2	21
18	5.1	22	131	47	36	314	220	133	34	7.6	7.1	19
19	6.2	21	106	48	29	264	163	104	26	7.1	7.1	18
20	6.8	19	104	48	56	190	145	86	22	7.1	5.1	20
21	7.1	18	70	47	51	120	120	76	22	7.1	4.2	25
22	8.7	18	61	47	43	106	101	80	26	7.1	3.3	60
23	12	19	233	108	112	108	90	65	24	6.8	3.3	60
24	12	18	402	139	175	108	92	77	21	6.2	3.0	30
25	11	25	444	137	185	128	98	139	18	5.8	3.3	26
26	9.5	28	486	98	125	129	104	117	30	5.1	3.0	26
27	9.5	27	369	70	104	100	90	102	33	4.9	3.5	22
28	8.7	44	332	203	80	98	92	90	28	4.9	6.5	21
29	8.7	81	535	291	-------	98	81	83	22	4.9	7.7	50
30	98	73	668	288	-------	89	78	81	20	4.9	13	68
31	119	-------	580	238	-------	73	-------	73	-------	4.8	13	-------
TOTAL	[illegible]	[illegible]	[illegible]	[illegible]	2,080	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
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CAL YR 1973 TOTAL [illegible] MEAN [illegible] MAX [illegible] MIN [illegible] [illegible]

WTR YR 1974 TOTAL [illegible] MEAN [illegible] MAX [illegible] MIN [illegible] [illegible]

† [illegible]

NOTE.--[illegible]

01160000 SOUTH BRANCH ASHUELOT RIVER AT WEBB, NEAR MARLBOROUGH, N.H.

LOCATION.--Lat 42°52'20", long 72°12'51", Cheshire County, on right bank 15 ft (5 m) downstream from bridge, at Webb, 2.5 mi (4.0 km) south of Marlborough, and at mile 10.9 (kilometre 17.5).

DRAINAGE AREA.--36.0 mi² (93.2 km²).

PERIOD OF RECORD.--October 1920 to current year. Monthly discharge only October 1920, published in WSP 1301.

GAGE.--Water-stage recorder. Concrete control since July 18, 1938. Datum of gage is 667.11 ft (203.335 m) above mean sea level (levels by Corps of Engineers).

AVERAGE DISCHARGE.--54 years, 58.8 ft³/s (1.665 m³/s), 22.18 in/yr (563 mm/yr).

EXTREMES.--Current year: Maximum discharge, 2,520 ft³/s (71.4 m³/s) Dec. 21 (gage height, 7.48 ft or 2.280 m), from rating curve extended above 810 ft³/s (22.9 m³/s) on basis of slope-area measurement of peak flow; minimum, 2.1 ft³/s (0.059 m³/s) Aug. 18, 19.

Period of record: Maximum discharge, 5,960 ft³/s (169 m³/s) Sept. 21, 1938 (gage height, 7.89 ft or 2.405 m), from rating curve extended above 3,300 ft³/s (93.5 m³/s) on basis of contracted-opening and slope-area measurements of peak flow; maximum gage height, 9.70 ft (2.951 m) Mar. 12, 1936 (ice jam); practically no flow for part of Mar. 22, 1931; minimum daily discharge, 0.4 ft³/s (0.011 m³/s) Sept. 15-17, 1926.

Maximum discharge known since at least 1869, that of Sept. 21, 1938.

REMARKS.--Records good except those for winter period, which are fair. Regulation at times prior to 1962 by powerplant and several small reservoirs above station; regulation greater prior to 1956. Records of chemical analyses and water temperatures for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 641: 1925(M). WSP 871: Drainage area. WSP 1231: 1921-24(M), 1926(M), 1929, 1933-34(M), 1939. WRD Mass., N.H., R.I., Vt., 1971: 1966(M), 1967-69.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	47	33	116	115	60	81	136	78	14	6.1	6.7
2	12	45	[illegible]	101	100	59	99	109	86	16	5.8	11
3	13	32	20	85	90	56	126	85	65	14	5.6	22
4	12	26	17	78	82	60	188	81	56	21	5.6	99
5	11	18	[illegible]	72	76	88	257	69	46	18	5.8	51
6	11	15	[illegible]	68	69	88	276	63	40	22	5.6	27
7	10	13	[illegible]	64	66	80	156	66	35	19	5.1	22
8	8.6	12	[illegible]	61	63	77	116	59	26	16	5.1	24
9	8.6	12	[illegible]	58	60	65	104	53	21	13	4.7	18
10	9.7	11	[illegible]	56	57	61	96	87	14	11	4.1	15
11	7.6	6.5	[illegible]	55	52	56	96	128	26	9.5	3.9	14
12	6.2	6.0	[illegible]	51	49	50	111	95	27	8.2	3.9	11
13	5.6	6.0	34	51	46	42	110	297	16	7.5	3.7	11
14	5.5	5.6	67	49	43	40	111	172	15	7.2	3.3	65
15	5.2	[illegible]	[illegible]	46	41	38	472	107	13	7.5	3.1	39
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
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01161000 ASHUELOT RIVER AT HINSDALE, N.H.

LOCATION.--Lat 42°47'07", long 72°29'12", Cheshire County, on left bank 40 ft (12 m) upstream from highway bridge at Hinsdale, 0.2 mi (0.3 km) downstream from dam, and 1.2 mi (1.9 km) upstream from mouth.

DRAINAGE AREA.--420 mi² (1,088 km²).

PERIOD OF RECORD.--March 1907 to December 1911, July 1914 to current year.

GAGE.--Water-stage recorder. Datum of gage is 201.32 ft (61.362 m) above mean sea level (levels by Corps of Engineers). Prior to Sept. 29, 1933, nonrecording gage on highway bridge at same datum.

AVERAGE DISCHARGE.--64 years, 658 ft³/s (18.63 m³/s), 21.28 in/yr (541 mm/yr), adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 6,040 ft³/s (171 m³/s) Dec. 21 (gage height, 7.90 ft or 2.408 m); minimum, 43 ft³/s (1.22 m³/s) Aug. 22, 23: minimum daily, 53 ft³/s (1.50 m³/s) Aug. 16, 17.

Period of record: Maximum discharge, 16,600 ft³/s (470 m³/s) Mar. 19, 1936, by computation of peak flow over dam; maximum gage height, 20.2 ft (6.16 m) Mar. 19, 1936, from floodmarks (backwater from Connecticut River); minimum discharge, 10 ft³/s (0.28 m³/s) Sept. 9, 1953; minimum daily, 12 ft³/s (0.34 m³/s) Sept. 15, 1929.

Maximum discharge since at least 1859, that of Mar. 19, 1936.

REMARKS.--Records good except those for periods of no gage-height record, which are fair. Flow regulated by Surry Mountain Lake 33 mi (53 km) upstream since 1942 and by Otter Brook Lake 29 mi (47 km) upstream on Otter Brook since 1958 (see p. 214). Occasional diurnal fluctuation at low flow by mills above station; greater regulation prior to 1952.

REVISIONS (WATER YEARS).--WSP 661: Drainage area. WSP 781: 1907-10, 1914-34. WSP 1301: 1915(M), 1917-19(M), 1921-33(M). WSP 1701: 1920.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	86	570	365	2,700	1,550	862	939	1,150	857	227	78	130
2	81	484	345	2,500	1,300	848	1,020	1,550	964	200	74	160
3	86	361	332	2,400	1,100	799	1,240	1,430	860	227	74	210
4	104	311	329	2,200	1,000	792	1,480	1,330	729	267	76	400
5	100	308	414	1,900	850	920	2,080	1,220	632	248	80	800
6	91	299	773	1,350	800	1,240	2,720	1,050	532	320	74	520
7	93	282	992	1,000	771	1,370	2,740	1,020	457	293	74	390
8	95	267	897	800	747	1,420	2,460	985	399	256	73	375
9	93	245	782	680	724	1,360	2,260	895	351	220	72	301
10	95	223	863	620	651	1,280	1,980	981	310	197	72	245
11	106	203	884	660	636	1,100	1,630	1,560	285	170	69	210
12	113	191	852	680	612	857	1,580	1,580	264	140	64	189
13	136	191	793	620	567	737	1,620	2,350	260	120	63	177
14	143	206	776	580	552	687	1,620	2,480	234	115	60	264
15	136	197	943	540	536	668	2,440	2,310	210	110	56	352
16	131	191	917	540	676	678	3,070	1,830	197	105	53	284
17	126	189	787	520	667	2,580	2,890	1,540	245	103	53	210
18	122	183	773	480	637	2,870	2,390	1,390	368	92	63	189
19	117	180	752	500	635	2,360	1,910	1,290	335	95	69	177
20	115	176	744	470	690	2,010	1,510	1,010	276	115	60	186
21	115	169	2,660	485	687	1,750	1,300	879	267	100	62	183
22	115	166	5,290	1,350	680	1,770	1,160	767	342	96	56	286
23	117	161	4,500	1,300	1,880	1,580	1,070	776	346	94	54	329
24	122	153	2,700	1,200	1,790	1,550	1,080	880	290	88	58	279
25	120	150	2,600	1,000	1,670	1,570	1,170	1,200	256	90	58	241
26	[illegible]	177	[illegible]	900	[illegible]	[illegible]	[illegible]	[illegible]	370	[illegible]	58	[illegible]
27	[illegible]	183	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
28	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
29	[illegible]	[illegible]	[illegible]	[illegible]	------	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
30	[illegible]	[illegible]	[illegible]	[illegible]	------	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
31	[illegible]	------	[illegible]	[illegible]	------	[illegible]	------	[illegible]	------	[illegible]	[illegible]	------
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[illegible]

01161500 TARBELL BROOK NEAR WINCHENDON, MASS.

LOCATION.--Lat 42°42'45", long 72°05'09", Worcester County, on left bank 0.1 mi (0.2 km) downstream from Spud Brook, 0.3 mi (0.5 km) downstream from Massachusetts-New Hampshire State line, and 2.8 mi (4.5 km) northwest of Winchendon.

DRAINAGE AREA.--18.2 mi² (47.1 km²).

PERIOD OF RECORD.--May 1916 to current year. Prior to October 1950, published as Sip Pond Brook near Winchendon.

GAGE.--Water-stage recorder. Concrete control since Sept. 24, 1965. Datum of gage is 872.82 ft (266.036 m) above mean sea level. May 29 to June 29, 1916, nonrecording gage; June 30 to Dec. 12, 1916, water-stage recorder; and Dec. 13, 1916, to June 26, 1917, nonrecording gage, all at site 450 ft (150 m) downstream at same datum.

AVERAGE DISCHARGE.--58 years, 29.2 ft³/s (0.827 m³/s), 21.79 in/yr (553 mm/yr).

EXTREMES.--Current year: Maximum discharge, 442 ft³/s (12.5 m³/s) Dec. 22 (gage height, 10.10 ft or 3.078 m); minimum, 1.3 ft³/s (0.037 m³/s) Aug. 22.

Period of record: Maximum discharge, 2,630 ft³/s (74.5 m³/s) Sept. 21, 1938 (gage height, 13.72 ft or 4.182 m), from rating curve extended above 1,200 ft³/s (34.0 m³/s) on basis of critical-depth study at control section; minimum, 0.1 ft³/s (0.003 m³/s) Aug. 25, 1924.

REMARKS.--Records good. Some regulation by Pearly and Sip Ponds and Damon Reservoirs 1 mi (1.6 km) upstream. Prior to 1967, greater regulation by these reservoirs and by small mill above station.

REVISIONS (WATER YEARS).--WSP 781: 1934. WSP 871: Drainage area. WSP 1051: 1928(M), 1933-34. WSP 1301: 1917(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.0	5.5	26	105	87	42	45	38	24	5.5	2.3	3.3
2	2.5	5.0	22	90	77	39	50	40	34	5.2	2.3	4.4
3	3.9	6.4	20	75	67	38	63	38	33	6.3	2.3	5.6
4	2.1	7.6	16	63	58	36	75	37	28	5.5	2.6	13
5	1.8	8.6	17	54	48	40	92	33	25	5.5	2.8	13
6	3.1	8.1	25	47	44	47	102	30	40	6.0	2.4	4.9
7	2.5	6.6	29	41	41	49	93	27	38	5.5	2.3	9.6
8	2.0	6.3	28	37	35	49	79	25	32	5.7	2.5	11
9	2.3	6.5	27	32	32	46	71	23	25	5.5	2.6	9.9
10	2.9	5.5	31	31	30	44	66	32	18	5.2	2.8	9.2
11	3.1	5.6	31	31	28	37	58	49	13	4.6	2.7	7.5
12	3.1	5.9	28	31	25	35	56	53	11	4.1	3.6	6.6
13	2.4	5.5	26	29	24	32	57	78	11	4.4	2.6	4.7
14	2.2	5.3	26	27	23	28	58	88	10	4.6	2.0	6.3
15	2.9	4.8	26	22	22	26	98	70	17	4.4	2.7	5.4
16	4.1	5.7	28	21	20	27	124	96	13	4.1	2.2	6.7
17	3.0	5.3	43	22	20	88	101	81	12	3.7	2.2	6.6
18	3.2	4.2	55	21	20	143	81	60	10	3.9	2.2	14
19	4.4	5.7	49	22	18	113	69	63	7.9	3.7	2.1	18
20	3.2	4.3	42	21	23	89	59	37	8.2	3.9	1.9	16
21	2.6	5.6	125	21	26	84	51	31	8.6	3.0	1.8	15
22	2.6	5.1	308	30	33	189	66	26	8.7	3.2	1.5	19
23	2.7	8.3	239	37	80	90	60	22	8.1	3.0	1.8	17
24	4.4	5.6	162	63	90	86	63	27	7.7	2.9	1.9	15
25	2.7	7.4	118	63	81	80	53	38	8.6	2.1	1.8	13
26	2.2	16	102	61	65	70	51	37	11	2.1	1.6	10
27	3.0	16	194	66	56	61	46	36	8.9	2.3	1.9	8.2
28	2.3	21	199	82	46	53	38	38	7.2	2.9	3.0	8.8
29	2.2	28	201	109	------	66	38	31	6.9	2.3	2.6	16
30	9.8	28	161	112	------	63	30	26	6.3	2.3	9.0	21
31	7.6	------	138	98	------	62	------	61	------	2.3	3.6	------
TOTAL	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
MEAN	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
MAX	9.8	28	308	112	90	189	124	96	40	6.3	9.0	21
MIN	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
CFSM	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
IN.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

CAL YR 1973 TOTAL [illegible] MEAN [illegible] MAX [illegible] MIN [illegible] CFSM [illegible] IN [illegible]
WTR YR 1974 TOTAL [illegible] MEAN [illegible] MAX [illegible] MIN [illegible] CFSM [illegible] IN [illegible]

PEAK DISCHARGE (BASE, 300 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
[illegible]	[illegible]	[illegible]	[illegible]				
[illegible]	[illegible]	[illegible]	[illegible]				

01162000 MILLERS RIVER NEAR WINCHENDON, MASS.

LOCATION.--Lat 42°41'03", long 72°05'02", Worcester County, on right bank 10 ft (3 m) downstream from Nolan Bridge, 0.3 mi (0.5 km) downstream from Tarbell Brook, 2 mi (3 km) west of Winchendon, and at mile 32.8 (kilometre 52.8).

DRAINAGE AREA.--83.0 mi² (215.0 km²).

PERIOD OF RECORD.--June 1916 to current year. March to May 1917, monthly discharge only, published in WSP 1301.

GAGE.--Water-stage recorder. Concrete control since Oct. 6, 1933. Datum of gage is 826.66 ft (251.966 m) above mean sea level. Prior to July 27, 1916, nonrecording gage at bridge at same datum.

AVERAGE DISCHARGE.--58 years, 141 ft³/s (3.993 m³/s), 23.07 in/yr (586 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,450 ft³/s (41.1 m³/s) Dec. 22 (gage height, 9.00 ft or 2.743 m); minimum daily, 9.4 ft³/s (0.27 m³/s) Aug. 15.

Period of record: Maximum discharge, 8,500 ft³/s (241 m³/s) Sept. 22, 1938 (gage height, 21.55 ft or 6.568 m, from floodmarks), from rating curve extended above 2,000 ft³/s (56.6 m³/s) on basis of computation of peak flow over dam; practically no flow because of regulation Sept. 20, 1918, Jan. 14, 1925.

REMARKS.--Records good. Flow regulated by Lake Monomonac 6 mi (10 km) upstream and other reservoirs and, prior to 1957, by powerplant.

REVISIONS (WATER YEARS).--WSP 451: 1916. WSP 871: Drainage area. WSP 1051: 1919, 1920-21(M), 1922-24, 1928(M), 1933-34.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	75	112	80	500	329	197	267	226	196	23	13	26
2	80	97	68	444	310	195	287	210	231	22	14	23
3	82	89	60	397	290	170	267	184	202	35	14	32
4	75	75	57	365	270	185	274	185	182	35	15	120
5	70	66	68	340	250	220	319	161	160	48	16	88
6	65	60	136	320	240	236	354	145	156	105	15	70
7	60	54	112	295	230	232	321	139	93	77	15	112
8	51	51	131	275	220	225	283	124	71	64	14	114
9	41	48	153	260	205	206	309	92	62	60	13	90
10	73	42	206	255	195	197	291	135	54	49	13	75
11	71	38	178	250	183	175	265	207	40	39	12	66
12	65	36	155	245	173	153	287	189	31	31	11	63
13	65	34	138	220	160	104	285	360	30	26	12	56
14	60	34	180	210	151	89	276	413	41	23	9.8	65
15	51	33	197	200	110	67	472	383	46	22	9.4	75
16	48	39	192	190	91	97	479	280	37	22	9.7	64
17	49	42	281	180	87	453	439	267	61	20	9.5	60
18	46	41	340	180	82	442	386	241	63	19	10	67
19	48	39	310	210	80	406	329	207	51	20	11	62
20	46	37	270	190	115	354	292	179	48	21	11	60
21	58	33	796	218	121	372	269	160	48	22	10	71
22	62	37	1,410	290	163	480	245	130	53	20	10	136
23	68	36	1,220	285	384	421	151	100	48	18	11	117
24	55	32	913	291	337	405	142	110	41	16	11	93
25	48	36	663	265	272	381	161	130	37	15	10	80
26	43	58	[illegible]	338	213	337	153	137	61	14	10	76
27	39	48	778	368	178	305	130	133	36	13	10	69
28	42	82	661	462	197	272	116	117	33	13	10	66
29	43	105	629	462	-------	251	110	107	31	13	10	[illegible]
30	114	95	702	412	-------	225	147	104	27	13	43	[illegible]
31	138	-------	579	365	-------	245	-------	97	-------	13	38	-------
TOTAL	1,931	1,640	[illegible]	[illegible]	5,636	[illegible]	[illegible]	[illegible]	2,391	931	[illegible]	2,422
MEAN	62.3	54.7	404	295	201	262	270	182	79.7	30.0	14.1	80.7
MAX	138	112	1,410	500	384	480	479	413	231	105	43	164
MIN	41	33	57	180	80	67	110	92	27	13	9.4	23
CFSM	.75	.66	4.87	3.55	2.42	3.16	3.25	2.19	.96	.36	.17	.97
IN.	.87	.74	5.61	4.11	2.52	3.64	3.63	2.53	1.07	.42	.20	1.09

CAL YR 1973 TOTAL [illegible] MEAN [illegible] MAX [illegible] MIN [illegible] CFSM [illegible] IN [illegible]
WTR YR 1974 TOTAL [illegible] MEAN [illegible] MAX [illegible] MIN 9.4 CFSM [illegible] IN [illegible]

PEAK DISCHARGE (BASE, [illegible])

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
[illegible]	[illegible]	9.00	1,450				
[illegible]	[illegible]	[illegible]	[illegible]				

01162500 PRIEST BROOK NEAR WINCHENDON, MASS.

LOCATION.--Lat 42°40'57", long 72°06'56", Worcester County, on right bank 100 ft (30 m) downstream from highway bridge, 3 mi (4.8 km) upstream from mouth, and 3.5 mi (5.6 km) west of Winchendon.

DRAINAGE AREA.--19.4 mi² (50.2 km²).

PERIOD OF RECORD.--May 1916 to current year. Monthly discharge only October 1917 to July 1918 (published in WSP 1301) and September 1935 to September 1936.

GAGE.--Water-stage recorder. Concrete control since September 1936. Datum of gage is 849.67 ft (258.979 m) above mean sea level. Prior to Sept. 11, 1936, nonrecording gage on left bank at same datum.

AVERAGE DISCHARGE.--58 years, 32.4 ft³/s (0.918 m³/s), 22.68 in/yr (576 mm/yr).

EXTREMES.--Current year: Maximum discharge, 737 ft³/s (20.9 m³/s) Dec. 22 (gage height, 6.22 ft or 1.896 m); minimum, 0.62 ft³/s (0.018 m³/s) Aug. 22, 23.

Period of record: Maximum discharge, 3,000 ft³/s (85.0 m³/s) Sept. 21, 1938 (gage height, 9.90 ft or 3.018 m), from rating curve extended above 620 ft³/s (17.6 m³/s) on basis of contracted-opening measurements at gage heights 8.4 and 9.90 ft (2.56 and 3.018 m); minimum, 0.08 ft³/s (0.002 m³/s) several times in September 1929.

REMARKS.--Records good. Prior to 1962, occasional diurnal fluctuation at low flow by mill above station; prior to 1953, regulation at low flow by mill and ponds.

REVISIONS (WATER YEARS).--WSP 451: 1916. WSP 871: Drainage area. WSP 1051: 1919, 1922-24. WSP 1301: 1917(M), 1919-24(M), 1926-27(M), 1929(M), 1931-35(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.9	27	25	116	94	41	44	46	36	8.8	1.9	5.5
2	1.9	26	21	96	85	39	51	51	45	7.7	1.8	5.4
3	2.4	21	18	76	80	35	66	41	39	8.8	1.7	8.2
4	2.6	17	17	63	62	35	78	30	31	11	2.2	38
5	2.6	14	18	54	43	48	94	25	26	11	4.0	40
6	2.7	13	47	44	36	56	111	25	22	18	2.8	30
7	2.7	11	55	39	34	53	105	18	18	14	2.1	23
8	3.2	10	50	34	32	52	89	19	16	9.9	1.7	34
9	3.2	9.5	44	29	30	46	75	18	14	7.7	1.5	30
10	3.4	10	53	28	27	42	65	27	13	6.0	1.3	21
11	3.6	10	52	29	26	35	56	57	12	4.6	1.1	14
12	3.4	9.5	44	29	24	33	59	59	11	3.8	.94	10
13	2.4	9.1	37	27	23	28	61	83	9.5	3.4	.89	9.1
14	2.0	8.8	38	27	23	26	60	101	8.4	2.9	.85	15
15	1.8	8.4	50	26	21	23	96	85	7.3	11	.78	17
16	1.8	8.8	46	24	19	26	130	68	6.4	18	.73	13
17	1.9	8.8	44	23	18	139	111	56	12	11	.74	9.2
18	1.9	8.0	54	24	18	169	92	52	16	6.4	.94	6.9
19	1.9	8.0	44	24	17	130	76	38	16	4.6	.92	5.6
20	1.9	7.3	37	23	20	101	61	32	14	5.4	.82	5.2
21	2.0	7.0	142	23	35	81	51	27	13	5.2	.72	6.1
22	2.9	7.0	599	35	38	96	42	25	16	4.6	.62	11
23	2.2	7.3	416	48	108	96	42	29	14	3.6	.62	9.8
24	2.2	7.3	200	55	127	83	46	44	12	2.9	.96	7.7
25	2.2	8.4	137	55	108	78	49	54	10	2.9	.82	6.4
26	2.2	11	101	69	81	68	43	55	11	2.7	.71	5.9
27	2.2	11	193	53	68	58	38	53	11	2.6	.81	5.3
28	2.0	19	248	93	58	49	36	49	11	2.4	3.5	5.0
29	2.2	36	273	122	------	42	36	42	9.9	2.4	2.4	25
30	15	31	204	126	------	38	32	39	9.5	2.2	7.0	32
31	29	------	149	108	------	39	------	34	------	2.2	7.9	------
TOTAL	113.3	387.2	3,447	1,599	1,355	1,883	1,991	1,382	490.0	207.7	55.21	456.3
MEAN	3.65	12.9	111	51.6	48.4	60.7	66.4	44.6	16.3	6.70	1.78	15.1
MAX	29	36	599	126	127	169	130	101	45	18	7.9	40
MIN	1.8	7.0	17	23	17	23	32	18	6.4	2.2	.62	5.0
CFSM	.19	.66	5.72	2.66	2.49	3.13	3.42	2.30	.84	.35	.09	.78
IN.	.22	.74	6.61	3.07	2.60	3.61	3.82	2.65	.94	.40	.11	.87

CAL YR 1973 TOTAL 17,677.20 MEAN 48.4 MAX 599 MIN 1.8 CFSM 2.50 IN 33.89
WTR YR 1974 TOTAL 13,366.71 MEAN 36.6 MAX 599 MIN .62 CFSM 1.89 IN 25.63

PEAK DISCHARGE (BASE, 400 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-22	[illegible]	6.22	737				
12-28	[illegible]	[illegible]	[illegible]				
3-17	[illegible]	[illegible]	[illegible]				

01163200 OTTER RIVER AT OTTER RIVER, MASS.

LOCATION.--Lat 42°35'18", long 72°02'29", Worcester County, on right bank at upstream side of Turner Street Bridge, 0.2 mi (0.3 km) upstream from Bailey Brook, 0.8 mi (1.3 km) southeast of Otter River, and 2 mi (3 km) northwest of Gardner.

DRAINAGE AREA.--34.2 mi² (88.6 km²).

PERIOD OF RECORD.--December 1964 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 900 ft (274 m) from topographic map.

AVERAGE DISCHARGE.--9 years (1965-74), 58.8 ft³/s (1.665 m³/s), 23.35 in/yr (593 mm/yr).

EXTREMES.--Current year: Maximum discharge, 714 ft³/s (20.2 m³/s) Dec. 22 (gage height, 4.41 ft or 1.344 m); minimum, 2.2 ft³/s (0.062 m³/s) Aug. 13.
Period of record: Maximum discharge, 714 ft³/s (20.2 m³/s) Dec. 22, 1973 (gage height, 4.41 ft or 1.344 m); minimum, 2.2 ft³/s (0.062 m³/s) Aug. 13, 1974.

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	132	60	153	142	71	111	85	80	19	8.7	23
2	23	118	50	132	111	70	117	89	105	17	8.3	17
3	23	86	42	112	97	66	127	79	87	26	7.7	18
4	22	63	40	99	85	67	127	76	72	33	8.2	81
5	21	49	46	89	74	78	131	69	59	37	9.1	98
6	19	41	99	79	70	83	142	63	49	67	9.1	76
7	16	37	99	73	68	78	131	59	41	55	8.2	61
8	14	39	79	71	68	72	109	56	37	39	7.4	59
9	14	35	72	62	62	67	102	50	31	33	6.2	47
10	13	28	108	58	60	61	94	62	26	24	6.0	37
11	13	27	109	66	55	57	87	97	24	18	5.8	29
12	13	25	90	63	55	55	98	97	24	14	5.5	24
13	15	25	70	61	54	50	102	163	24	13	3.7	21
14	14	24	73	59	56	47	102	169	23	12	4.4	38
15	13	24	93	56	53	46	158	135	20	11	4.7	40
16	12	29	85	55	50	50	178	105	20	10	4.9	34
17	11	28	92	55	46	165	147	87	39	11	4.9	27
18	11	24	110	53	50	191	115	74	46	8.8	5.5	23
19	11	23	96	56	50	157	98	63	42	9.3	5.5	20
20	11	22	87	57	68	120	85	57	38	11	5.6	18
21	12	21	253	56	74	115	76	55	39	12	5.6	23
22	11	23	660	79	94	199	68	52	66	12	5.8	53
23	11	23	457	86	198	208	65	53	57	11	6.9	55
24	11	22	287	99	188	185	79	60	49	9.6	6.2	43
25	10	27	194	91	145	163	81	67	39	8.9	6.2	34
26	10	37	157	85	107	145	73	65	33	8.6	6.0	29
27	10	35	227	123	85	120	65	64	30	8.5	6.0	26
28	10	52	291	208	74	99	59	61	26	8.5	9.3	22
29	10	79	271	231	------	83	55	57	25	8.5	11	79
30	76	70	224	215	------	79	53	58	23	8.5	20	145
31	135	------	183	176	------	94	------	54	------	8.6	28	------
TOTAL	616	1,268	4,804	2,958	2,339	3,141	3,035	2,381	1,274	572.8	240.4	1,300
MEAN	19.9	42.3	155	95.4	83.5	101	101	76.8	42.5	18.5	7.75	43.3
MAX	135	132	660	231	198	208	178	169	105	67	28	145
MIN	10	21	40	53	46	46	53	50	20	8.5	3.7	17
CFSM	.58	1.24	4.53	2.79	2.44	2.95	2.95	2.25	1.24	.54	.23	1.27
IN.	.67	1.38	5.23	3.22	2.54	3.42	3.30	2.59	1.39	.62	.26	1.41

CAL YR 1973 TOTAL 29,535.6 MEAN 80.9 MAX 660 MIN 9.0 CFSM 2.37 IN 32.13
WTR YR 1974 TOTAL 23,929.2 MEAN 65.6 MAX 660 MIN 3.7 CFSM 1.92 IN 26.03

01164000 MILLERS RIVER AT SOUTH ROYALSTON, MASS.

LOCATION.--Lat 42°37'47", long 72°09'03", Worcester County, on right bank 500 ft (150 m) downstream from bridge in South Royalston, 0.4 mi (0.6 km) downstream from Beaver Brook, 1.7 mi (2.7 km) downstream from Birch Hill Dam, and at mile 25.5 (kilometre 41.0).

DRAINAGE AREA.--187 mi² (484 km²).

PERIOD OF RECORD.--July 1939 to current year.

GAGE.--Water-stage recorder. Datum of gage is 792.00 ft (241.402 m) above mean sea level (levels by Corps of Engineers).

AVERAGE DISCHARGE.--35 years, 312 ft³/s (8.836 m³/s), 22.66 in/yr (576 mm/yr), adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 2,130 ft³/s (60.3 m³/s) Dec. 28 (gage height, 7.22 ft or 2.201 m); minimum daily, 29 ft³/s (0.82 m³/s) Aug. 16, 17.

Period of record: Maximum discharge, 4,400 ft³/s (125 m³/s) Apr. 13, 1940 (gage height, 8.40 ft or 2.560 m); maximum gage height, 9.42 ft (2.871 m) Jan. 24, 1959 (backwater from ice); minimum daily discharge, 9.3 ft³/s (0.26 m³/s) Aug. 4, 1956. Maximum discharge since construction of Birch Hill Reservoir in 1941, 2,830 ft³/s (80.1 m³/s) June 25, 26, 1944 (gage height, 7.57 ft or 2.307 m).

Flood of Sept. 21 or 22, 1938, reached a stage of 15.9 ft (4.85 m), from floodmarks (discharge not determined).

REMARKS.--Records good. Flow regulated by Lake Monomonac and other reservoirs, by mills and powerplants prior to 1955, and at high flow by Birch Hill Reservoir (see p. 214).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	126	412	308	1,440	788	468	539	414	337	83	47	103
2	129	394	252	1,200	641	445	571	492	473	73	46	91
3	139	336	206	989	612	417	607	472	479	97	45	81
4	138	271	181	809	617	407	618	440	427	128	47	318
5	127	207	180	675	540	449	651	403	374	149	62	386
6	119	171	330	611	490	490	711	384	331	336	57	281
7	111	152	422	551	465	502	731	341	263	308	51	259
8	103	138	404	468	440	491	696	317	196	205	47	305
9	83	136	386	480	410	453	660	281	168	163	43	247
10	62	121	438	440	385	420	627	302	150	132	41	197
11	92	110	474	420	370	389	585	479	128	104	38	154
12	122	104	452	410	345	360	582	521	110	86	35	136
13	134	101	403	405	335	305	589	647	103	74	34	123
14	104	100	375	400	336	254	588	754	101	70	32	188
15	99	98	442	390	300	248	717	758	110	63	30	214
16	84	108	454	385	250	251	854	643	98	71	29	177
17	88	115	464	365	242	636	886	620	160	69	29	142
18	85	112	600	365	231	879	842	560	197	61	30	124
19	87	105	580	365	223	842	767	489	172	56	30	119
20	87	100	570	385	300	816	683	419	153	60	30	111
21	89	93	794	366	370	814	606	367	145	72	31	126
22	100	98	957	441	405	960	513	334	192	67	31	303
23	109	102	1,420	433	651	1,030	487	299	190	62	32	309
24	94	98	1,790	514	699	910	430	327	155	57	35	237
25	87	102	1,940	550	813	952	435	372	132	55	35	186
26	80	137	1,860	519	692	865	420	389	122	52	32	161
27	77	148	1,810	579	584	769	384	368	121	49	31	145
28	74	193	1,970	910	507	678	347	365	109	49	48	137
29	78	337	2,050	1,120	------	595	316	333	99	49	58	312
30	205	368	1,970	1,110	------	529	316	321	92	48	87	421
31	410	------	1,730	1,000	------	504	------	294	------	49	110	------
TOTAL	3,519	5,056	20,212	19,053	13,041	18,128	17,756	13,548	5,887	3,015	1,339	6,083
MEAN	114	169	652	615	466	585	592	437	196	97.3	43.2	203
MAX	410	412	2,050	1,440	813	1,030	886	758	479	336	110	421
MIN	62	93	180	365	223	248	316	281	92	48	29	81
MEAN†	117	168	883	585	461	583	587	437	196	97.5	45.0	202
CFSM†	.63	.90	4.72	3.13	2.47	3.12	3.14	2.34	1.05	.52	.24	1.08
IN.†	.72	1.00	5.45	3.62	2.57	3.60	3.50	2.70	1.17	.60	.28	1.20

CAL YR 1973 TOTAL 171,255 MEAN 469 MAX 2,050 MIN 59 MEAN† 473 CFSM† 2.53 IN† 34.32
WTR YR 1974 TOTAL 132,667 MEAN 363 MAX 2,050 MIN 29 MEAN† 363 CFSM† 1.94 IN† 26.38

† Adjusted for change in contents in Birch Hill Reservoir.

01165000 EAST BRANCH TULLY RIVER NEAR ATHOL, MASS.

LOCATION.--Lat 42°38'32", long 72°13'34", Worcester County, on right bank 300 ft (90 m) downstream from Tully Dam, 1.3 mi (2.1 km) downstream from Lawrence Brook, 3.5 mi (5.6 km) north of Athol, and 4.9 mi (7.9 km) upstream from mouth.

DRAINAGE AREA.--50.4 mi² (130.5 km²).

PERIOD OF RECORD.--October 1915 to current year. October 1915 to May 1916 monthly discharge only, published in WSP 1301.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 613.71 ft (187.059 m) above mean sea level (Corps of Engineers bench mark). Prior to Oct. 26, 1948, nonrecording gage at site 0.2 mi (0.3 km) upstream at datum 14.40 ft (4.389 m) higher.

AVERAGE DISCHARGE.--59 years, 80.3 ft³/s (2.274 m³/s), 21.64 in/yr (550 mm/yr), adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 608 ft³/s (17.2 m³/s) Dec. 30 (gage height, 4.66 ft or 1.420 m); minimum, 0.89 ft³/s (0.025 m³/s) Apr. 26; minimum daily, 1.9 ft³/s (0.054 m³/s) Sept. 2, 3.

Period of record: Maximum discharge, 5,140 ft³/s (146 m³/s) Sept. 21, 1938 (gage height, 8.60 ft or 2.621 m, from floodmarks, site and datum then in use), from rating curve extended above 1,500 ft³/s (42.5 m³/s) on basis of contracted-opening measurement and computation of peak flow over dam; minimum, 0.01 ft³/s (<0.001 m³/s) Nov. 6-11, 1961; minimum daily, 0.01 ft³/s (<0.001 m³/s) Nov. 7-10, 1961. Maximum discharge since construction of Tully Reservoir in 1948, 828 ft³/s (23.4 m³/s) Apr. 21, 1960 (gage height, 5.38 ft or 1.640 m).

REMARKS.--Records good. Flow regulated by Tully Reservoir since 1948 (see p. 214).

REVISIONS (WATER YEARS).--WSP 451: 1916. WSP 891: Drainage area. WSP 1051: 1916(M), 1928. WSP 1301: 1917-35(M), 1937(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	70	94	516	201	72	92	49	94	22	14	2.7
2	10	76	53	446	198	74	94	96	96	18	14	1.9
3	10	51	36	343	173	98	94	123	96	16	14	1.9
4	10	37	36	195	147	109	173	123	94	16	14	29
5	10	37	36	128	96	109	204	121	78	16	14	71
6	10	37	68	105	76	111	204	107	46	16	14	72
7	10	37	142	107	90	114	201	76	42	16	13	72
8	10	32	142	116	96	114	198	76	42	16	12	50
9	37	19	100	118	100	128	170	66	39	16	11	41
10	84	19	125	107	98	140	125	78	23	16	11	34
11	78	19	125	86	92	135	125	118	21	31	11	24
12	74	19	84	70	70	133	125	176	22	42	11	23
13	70	19	92	72	70	128	128	178	22	41	11	19
14	49	19	103	72	70	118	128	220	19	23	11	14
15	26	19	109	72	70	74	130	242	13	14	11	14
16	13	19	114	72	59	54	184	201	13	14	10	14
17	8.5	19	114	72	53	58	207	165	13	14	9.0	14
18	10	19	96	70	54	137	204	155	13	14	5.5	14
19	10	19	88	70	54	195	201	118	13	14	3.6	14
20	10	19	70	70	54	204	152	98	13	13	3.4	31
21	10	19	58	70	66	201	125	65	40	12	3.2	42
22	10	19	09	70	103	201	111	49	74	12	2.8	50
23	10	19	70	96	187	201	88	86	69	12	2.9	54
24	10	19	95	128	307	201	88	116	42	12	2.9	50
25	10	19	28	128	299	201	90	118	42	12	2.9	29
26	10	38	10	128	168	190	94	118	42	12	2.9	17
27	10	30	42	128	155	107	118	133	42	14	2.9	13
28	9.0	54	79	198	116	110	116	155	42	16	2.9	13
29	7.5	84	70	286	------	99	116	152	33	15	2.9	13
30	9.0	100	70	303	------	92	82	125	22	15	3.1	62
31	26	------	81	239	------	92	------	96	------	15	2.9	------
TOTAL	672.0	1,007	5,039	4,679	3,322	4,087	4,167	3,797	1,260	535	249.8	899.5
MEAN	21.7	33.6	162	151	119	132	139	122	42.0	17.3	8.06	30.0
MAX	84	100	81	516	307	204	207	242	96	42	14	72
MIN	7.5	19	36	70	53	54	82	49	13	12	2.8	1.9
MEAN†	12.0	33.8	114	117	118	148	139	123	39.9	16.5	9.15	35.5
CFSM†	.24	.67	[illegible]	2.32	2.34	2.94	2.76	2.44	.79	.33	.18	.70
IN.†	.27	.75	[illegible]	2.68	2.44	3.39	3.08	2.81	.88	.38	.21	.78

CAL YR 1973 TOTAL 37,953.70 MEAN 104 MAX 607 MIN .50 MEAN† 107 CFSM† 2.12 IN† 28.77
WTR YR 1974 TOTAL 30,314.30 MEAN 83.1 MAX 581 MIN 1.9 MEAN† 83.5 CFSM† 1.66 IN† 22.50

† Adjusted for change in contents Tully Reservoir.

01165300 LAKE ROHUNTA OUTLET NEAR ATHOL, MASS.

LOCATION.--Lat 42°34'13", long 72°16'22", Worcester County, on right bank 300 ft (90 m) downstream from bridge on Daniel Shays Highway, 600 ft (200 m) downstream from Lake Rohunta, and 2.8 mi (4.5 km) southwest of Athol.

DRAINAGE AREA.--20.3 mi^2 (52.6 km^2).

PERIOD OF RECORD.--December 1964 to current year.

GAGE.--Water-stage recorder. Datum of gage is 503.32 ft (153.412 m) above mean sea level.

AVERAGE DISCHARGE.--9 years (1965-74), 33.6 ft^3/s (0.952 m^3/s).

EXTREMES.--Current year: Maximum discharge, 314 ft^3/s (8.89 m^3/s) Dec. 22 (gage height, 4.30 ft or 1.311 m); minimum daily, 0.37 ft^3/s (0.010 m^3/s) June 18.
Period of record: Maximum discharge, 496 ft^3/s (14.0 m^3/s) June 29, 1972 (gage height, 5.52 ft or 1.682 m), from rating curve extended above 240 ft^3/s (6.80 m^3/s); minimum daily, 0.17 ft^3/s (0.005 m^3/s) June 3, 4, 1971.

REMARKS.--Records good. Flow regulated by Lake Rohunta.

DISCHARGE. IN CUBIC FEET PER SECOND. WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.3	20	21	69	84	55	61	39	41	8.3	3.5	6.1
2	4.0	20	22	78	79	53	63	47	54	8.6	3.4	5.5
3	4.5	19	21	70	74	52	66	48	57	12	3.3	8.0
4	4.3	18	19	65	66	51	67	45	53	13	4.4	18
5	4.5	16	20	59	60	53	66	44	46	15	7.0	22
6	4.3	14	25	55	54	54	68	39	36	28	6.3	22
7	4.2	12	29	52	54	54	74	36	30	35	5.8	25
8	4.0	12	31	50	52	50	76	35	25	34	5.0	24
9	3.8	10	33	48	50	50	76	33	20	28	4.5	20
10	3.5	9.2	38	48	47	43	74	38	18	21	4.0	16
11	6.0	9.2	36	50	44	44	73	48	16	16	3.7	15
12	9.8	8.6	36	48	42	38	70	54	15	13	3.3	13
13	13	8.3	34	44	40	36	68	86	14	12	2.8	13
14	13	8.0	35	40	39	35	67	104	9.5	12	2.5	17
15	13	7.7	34	38	38	35	66	97	.44	13	2.2	17
16	12	8.0	33	36	35	38	65	77	.46	11	2.2	14
17	11	8.0	41	36	34	79	78	66	.46	9.7	2.3	14
18	9.5	8.0	42	34	33	110	72	58	.37	9.2	2.0	11
19	8.3	8.3	34	35	33	104	62	50	.55	7.9	2.0	11
20	7.5	8.0	35	33	42	88	56	45	1.6	7.4	1.8	10
21	6.7	8.0	140	35	47	89	52	42	4.7	7.1	1.8	10
22	6.2	8.6	302	44	56	131	49	40	9.8	6.4	1.5	13
23	6.0	8.9	238	50	80	143	46	42	12	5.8	1.8	12
24	5.6	8.9	160	52	96	123	45	45	13	4.6	2.6	12
25	4.9	9.8	114	52	86	109	40	47	13	4.5	2.2	12
26	4.7	12	90	58	75	96	33	47	15	4.5	2.2	11
27	4.5	12	99	95	66	81	32	46	15	4.2	2.4	11
28	4.5	16	128	72	58	72	32	43	13	4.5	2.4	11
29	4.3	19	133	93	------	66	27	42	12	4.4	3.1	25
30	12	22	116	80	------	61	30	40	10	4.1	7.1	36
31	17	------	100	93	------	60	------	38	------	4.0	7.7	------
TOTAL	220.9	357.5	2.239	1.703	1.562	2.153	1.754	1.563	555.88	368.2	106.6	452.6
MEAN	7.13	11.9	72.2	54.9	55.8	69.5	58.5	50.4	18.5	11.9	3.44	15.1
MAX	17	22	302	95	96	143	78	104	57	35	7.7	36
MIN	3.5	7.7	19	33	33	35	27	33	.37	4.0	1.5	5.5

CAL YR 1973 TOTAL 16.320.28 MEAN 44.7 MAX 302 MIN .88
WTR YR 1974 TOTAL 13.035.68 MEAN 35.7 MAX 302 MIN .37

01165500 MOSS BROOK AT WENDELL DEPOT, MASS.

LOCATION.--Lat 42°36'10", long 72°21'36", Franklin County, on left bank 0.2 mi (0.3 km) upstream from mouth, 0.2 mi (0.3 km) north of Wendell Depot, and 2.5 mi (4.0 km) west of Orange.

DRAINAGE AREA.--12.3 mi² (31.9 km²).

PERIOD OF RECORD.--June to October 1909, April to August 1910, June 1916 to current year. Published as "at Wendell" 1909-10.

GAGE.--Water-stage recorder. Crest-stage gage since July 11, 1958. Datum of gage is 508.9 ft (155.11 m) above mean sea level. Prior to April 1910, nonrecording gage at site 1,200 ft (350 m) downstream at different datum. April to August 1910, nonrecording gage and sharp-crested weir at site 300 ft (90 m) downstream at different datum. June 1916 to Dec. 8, 1965, nonrecording gage at present site and datum.

AVERAGE DISCHARGE.--58 years (1916-74), 20.0 ft³/s (0.566 m³/s), 22.08 in/yr (561 mm/yr).

EXTREMES.--Current year: Maximum discharge, 537 ft³/s (15.2 m³/s) Dec. 21 (gage height, 4.52 ft or 1.378 m); minimum, 0.80 ft³/s (0.023 m³/s) Aug. 22, 23.

Period of record: Maximum discharge, 1,540 ft³/s (43.6 m³/s) Mar. 19, 1936 (gage height, 6.30 ft or 1.920 m, from floodmarks), from rating curve extended above 400 ft³/s (11.3 m³/s) on basis of slope-area measurements at gage heights 5.62 and 6.30 ft (1.713 and 1.920 m); minimum, 0.2 ft³/s (0.006 m³/s) Sept. 4, 5, 1929.

REMARKS.--Records good except those for winter period, which are fair.

REVISIONS (WATER YEARS).--WSP 821: 1936(M). WSP 891: Drainage area. WSP 1051: 1917, 1919-24, 1929(m). WSP 1231: 1917-21(M), 1922, 1923(M), 1924-26, 1927-28(M), 1929, 1930-35(M), 1939(M), 1941(M), 1944(M), 1949(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.2	15	13	46	47	24	30	29	23	4.8	1.4	2.7
2	2.3	13	9.9	42	38	24	33	27	27	4.1	1.3	3.4
3	3.2	9.3	8.5	34	36	23	41	20	19	11	1.2	7.5
4	3.3	7.4	7.8	31	33	24	42	20	15	15	1.9	34
5	3.4	6.3	12	30	29	34	48	17	12	15	3.8	19
6	3.7	5.5	42	28	27	44	58	16	11	30	2.1	8.2
7	3.4	5.2	34	26	26	40	40	19	9.4	16	1.7	9.0
8	3.1	4.7	20	24	25	41	36	19	8.2	9.1	1.5	9.2
9	2.9	4.6	20	22	23	33	32	16	7.6	6.4	1.4	6.3
10	2.8	4.4	36	21	21	28	31	28	7.0	4.8	1.3	4.9
11	2.7	4.8	30	21	18	26	29	51	6.0	4.4	1.2	4.0
12	2.6	4.5	20	20	17	23	35	37	5.4	6.6	1.1	3.4
13	2.7	4.5	15	19	16	21	40	98	5.1	2.7	.97	3.2
14	2.7	4.3	20	18	14	18	38	69	4.6	2.4	.97	4.7
15	2.6	4.1	28	17	14	17	83	42	4.1	3.1	.88	11
16	2.4	4.6	21	17	15	22	71	31	3.9	2.4	.84	6.4
17	2.6	4.8	17	16	14	187	46	27	10	2.0	.92	4.8
18	2.6	4.6	18	15	14	105	36	26	9.6	1.8	1.3	4.0
19	2.8	4.7	17	16	13	58	31	20	6.3	2.0	1.2	3.9
20	2.8	4.8	15	16	24	44	27	17	5.2	2.4	.97	4.2
21	2.9	4.5	190	16	27	49	26	15	5.6	1.9	.80	7.8
22	2.8	4.9	296	27	35	104	22	16	9.0	1.7	.80	11
23	2.8	5.2	98	30	78	71	21	17	7.0	1.6	1.2	7.7
24	2.7	5.2	59	33	64	97	29	25	5.6	1.6	1.7	5.4
25	2.7	7.9	54	33	60	93	29	34	5.6	1.7	1.3	4.9
26	2.7	11	43	[illegible]	36	41	22	20	14	1.6	1.8	4.5
27	2.7	9.3	122	[illegible]	30	38	19	25	13	1.6	1.8	4.5
28	2.7	17	160	[illegible]	26	31	17	21	9.3	1.7	3.6	4.4
29	3.7	26	127	92	------	27	18	19	7.3	1.7	2.3	31
30	19	18	75	[illegible]	------	26	18	20	6.3	1.6	2.7	38
31	20	------	65	[illegible]	------	26	------	17	------	1.6	4.4	------
TOTAL	121.6	230.1	1,690.2	976	805	1,955	1,038	862	283.7	164.3	51.63	268.6
MEAN	3.92	7.67	54.5	31.5	28.8	63.1	34.6	27.8	9.46	5.30	1.67	8.95
MAX	20	26	296	92	78	187	83	98	27	30	5.7	38
MIN	2.2	4.1	7.8	15	13	17	16	16	3.9	1.6	.80	2.7
CFSM	.32	.62	4.43	2.56	2.34	5.13	2.81	2.26	.77	.43	.14	.73
IN.	.37	.70	5.11	2.95	2.43	5.91	3.14	2.61	.86	.50	.16	.81

CAL YR 1973 TOTAL 10,365.00 MEAN 28.4 MAX 296 MIN 1.9 CFSM 2.31 IN 31.35
WTR YR 1974 TOTAL 7,866.93 MEAN 21.6 MAX 296 MIN .80 CFSM 1.75 IN 23.73

PEAK DISCHARGE (BASE, 400 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-21	[illegible]	4.52	537				
12-28	[illegible]	[illegible]	[illegible]				
3-17	[illegible]	[illegible]	[illegible]				

01166500 MILLERS RIVER AT ERVING, MASS.

LOCATION.--Lat 42°35'51", long 72°26'19", Franklin County, on right bank 75 ft (23 m) downstream from bridge at Farley, 0.6 mi (1.0 km) upstream from Mormon Hollow Brook, 2.4 mi (3.9 km) downstream from Erving, and 5.5 mi (8.8 km) upstream from mouth.

DRAINAGE AREA.--375 mi² (971 km²).

PERIOD OF RECORD.--August 1914 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 380 ft (116 m) from topographic map. Prior to June 30, 1915, nonrecording gage. June 30, 1915, to Sept. 20, 1938, water-stage recorder, and Sept. 21 to Dec. 31, 1938, nonrecording gage, at site 2.2 mi (3.5 km) upstream at different datum. Jan. 1 to Mar. 29, 1939, nonrecording gage, and Mar. 30, 1939, to Sept. 12, 1941, water-stage recorder, at site 0.4 mi (0.6 km) downstream at different datum.

AVERAGE DISCHARGE.--60 years, 617 ft³/s (17.47 m³/s), 22.34 in/yr (567 mm/yr), adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 6,770 ft³/s (192 m³/s) Dec. 21 (gage height, 7.61 ft or 2.320 m); minimum daily, 39 ft³/s (1.10 m³/s) Aug. 14.

Period of record: Maximum discharge, 29,000 ft³/s (821 m³/s) Sept. 22, 1938 (gage height, 13.37 ft or 4.075 m, from floodmarks, site and datum then in use), mean of two slope-area measurements; practically no flow at times during 1915 and 1916 because of regulation; minimum daily, 8 ft³/s (0.23 m³/s) Sept. 6, 1926.

REMARKS.--Records excellent except those for winter period, which are good. Flow regulated by powerplants, Lake Monomonac and other reservoirs; high flow regulated by Birch Hill Reservoir 22 mi (35 km) upstream and Tully Reservoir (see p. 214); greater regulation by powerplants prior to 1966.

REVISIONS (WATER YEARS).--WSP 641: 1920(M). WSP 756: Drainage area. WSP 781: 1928(M), 1933(M). WSP 1301: 1915(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	180	660	577	2,040	1,600	880	1,000	801	674	205	88	169
2	157	631	474	2,440	1,300	831	1,050	840	842	177	83	168
3	177	553	382	2,040	1,120	790	1,140	857	845	245	59	211
4	183	450	325	1,610	1,070	818	1,170	829	767	280	80	580
5	183	365	380	1,170	930	684	1,370	744	684	308	174	780
6	163	306	712	1,070	836	974	1,490	704	585	595	126	695
7	192	226	802	990	820	962	1,440	672	561	568	109	641
8	183	250	793	828	790	947	1,350	618	480	410	98	523
9	137	219	768	734	750	881	1,300	571	376	293	87	423
10	163	190	911	751	710	854	1,140	882	308	244	81	339
11	183	183	897	720	680	812	1,080	985	278	209	75	275
12	223	215	821	690	650	794	1,110	1,040	246	193	67	232
13	250	192	892	670	630	684	1,120	1,700	236	176	68	209
14	242	163	736	650	640	607	1,100	1,840	223	171	39	304
15	219	167	836	630	570	[illegible]	[illegible]	1,580	188	180	44	384
16	116	190	822	620	570	567	1,640	1,410	196	137	93	388
17	160	160	813	580	564	1,990	1,650	1,200	288	135	55	262
18	140	173	861	540	584	1,880	1,550	1,070	366	119	56	213
19	132	287	818	660	526	[illegible]	1,610	936	296	108	67	185
20	118	177	846	680	636	1,570	1,270	783	295	110	[illegible]	194
21	123	167	3,330	670	796	1,740	[illegible]	[illegible]	[illegible]	136	91	[illegible]
22	170	135	4,130	880	[illegible]	2,300	[illegible]	961	362	130	52	302
23	136	[illegible]	2,710	[illegible]	1,010	2,100	[illegible]	[illegible]	[illegible]	111	[illegible]	[illegible]
24	130	160	[illegible]	885	1,730	[illegible]	[illegible]	717	[illegible]	103	[illegible]	[illegible]
25	130	193	[illegible]	1,080	1,760	1,080	817	836	[illegible]	90	[illegible]	319
26	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
27	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
28	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
29	[illegible]	[illegible]	[illegible]	[illegible]	-------	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
30	[illegible]	[illegible]	[illegible]	[illegible]	-------	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
31	[illegible]	-------	[illegible]	[illegible]	-------	[illegible]	-------	[illegible]	-------	[illegible]	[illegible]	-------

[illegible]

† Adjusted for change in contents in Birch Hill and Tully Reservoirs.

01167000 CONNECTICUT RIVER AT TURNERS FALLS, MASS.

LOCATION.--Lat 42°36'40", long 72°33'20", Franklin County, at dam of Western Massachusetts Electric Co., at Turners Falls, 0.2 mi (0.3 km) upstream from Fall River, and at mile 122.2 (kilometre 196.6).

DRAINAGE AREA.--7,163 mi² (18,552 km²).

PERIOD OF RECORD.--January 1915 to current year.

AVERAGE DISCHARGE.--59 years, 11,780 ft³/s (333.6 m³/s), 22.33 in/yr (567 mm/yr), adjusted for storage.

REMARKS.--Discharge computed by adding flow over and through dam, flow for factories through canal that diverts around dam, and flow through power stations 1 and 2 of Western Massachusetts Electric Co. Flow regulated by powerplants and by First Connecticut and Second Connecticut Lakes, Lake Francis, Moore and Comerford Reservoirs (see p. 214), and other reservoirs (combined usable capacity, about 35,500,000,000 ft³ or 1,010,000,000 m³).

COOPERATION.--Records furnished by Western Massachusetts Electric Co. Records of chemical analyses for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 741: 1932. WSP 891: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4,720	8,260	12,500	25,500	23,000	12,800	10,200	37,800	19,200	6,860	6,080	3,200
2	5,610	12,100	11,700	25,400	18,000	11,600	11,300	43,200	17,300	8,770	7,050	4,090
3	6,380	11,900	8,660	19,300	13,600	11,500	11,900	41,200	15,900	9,500	2,940	6,750
4	5,990	8,630	9,710	15,100	15,300	11,300	23,900	37,200	14,600	3,070	1,770	10,400
5	9,030	10,300	9,370	13,900	14,000	15,100	44,900	32,000	11,300	8,180	5,710	11,500
6	8,360	9,400	11,200	12,800	12,400	30,200	68,300	30,100	11,900	12,600	6,200	13,200
7	10,800	6,750	14,000	11,200	11,300	34,600	56,300	26,600	11,100	16,200	5,080	7,880
8	10,600	5,000	13,600	11,500	11,500	39,400	45,000	21,800	10,700	11,800	6,260	2,510
9	7,630	5,910	13,500	9,920	10,200	42,400	42,800	20,400	4,660	9,440	1,810	5,480
10	7,910	4,470	12,800	11,500	9,110	25,100	32,600	21,100	7,760	9,610	1,100	5,280
11	6,210	2,140	16,800	10,100	9,640	21,400	30,900	25,000	9,740	12,200	1,470	5,990
12	7,160	5,350	13,500	9,730	11,700	18,800	26,700	24,600	9,350	11,200	2,180	6,440
13	5,070	4,860	12,600	8,060	9,580	15,800	27,400	38,100	5,850	6,330	3,170	5,110
14	2,970	3,410	12,900	7,460	12,100	13,800	25,300	43,100	6,020	3,580	3,210	2,560
15	6,250	8,040	14,500	8,620	11,200	13,400	39,200	37,800	6,050	8,140	1,660	2,870
16	4,950	7,150	17,300	11,500	8,440	11,500	56,600	27,400	3,990	8,250	2,780	3,740
17	4,700	11,100	14,900	10,700	6,660	26,200	55,400	25,600	8,330	7,140	977	4,160
18	4,390	15,100	11,900	8,700	9,150	25,500	44,800	23,300	10,400	7,040	1,100	3,950
19	6,750	11,200	9,370	8,660	7,770	19,500	38,400	21,500	11,300	5,800	5,810	4,120
20	3,160	8,060	9,850	6,350	8,550	18,800	33,800	18,200	11,700	6,970	2,350	2,710
21	1,150	7,640	18,200	9,860	8,990	18,600	31,800	16,400	11,300	4,470	3,100	4,040
22	5,090	4,800	74,700	11,000	11,000	17,300	29,200	14,200	9,690	6,060	3,500	6,660
23	6,070	6,220	63,400	13,400	19,500	16,400	31,000	11,000	4,580	6,600	4,380	9,890
24	6,610	9,480	52,000	14,500	25,500	14,300	40,700	20,100	6,330	6,000	2,750	10,700
25	5,340	6,550	37,900	15,400	21,300	17,800	46,300	28,100	6,490	5,810	1,130	9,400
26	4,530	9,290	32,600	14,800	16,700	15,900	46,700	27,300	4,970	5,550	1,820	5,870
27	3,270	9,920	43,000	15,600	14,800	16,000	39,000	26,700	4,780	2,640	2,210	6,030
28	3,810	10,000	55,800	28,100	13,000	14,500	33,300	29,500	5,480	1,530	3,130	4,310
29	6,960	12,500	52,500	31,700	------	12,700	27,200	26,200	6,200	4,870	2,510	7,070
30	6,950	12,400	41,600	25,600	------	10,900	28,000	21,100	2,860	6,300	6,190	7,390
31	5,570	------	34,700	23,000	------	10,500	------	18,400	------	5,390	6,340	------
TOTAL	183,990	247,930	757,060	448,960	363,990	583,600	1,078.9M	835,000	269,830	227,900	105,767	183,300
MEAN	5,935	8,264	24,420	14,480	13,000	18,830	35,960	26,940	8,994	7,352	3,412	6,110
MAX	10,800	15,100	74,700	31,700	25,500	42,400	68,300	43,200	19,200	16,200	7,050	13,200
MIN	1,150	2,140	8,660	6,350	6,660	10,500	10,200	11,000	2,860	1,530	977	2,510
MEAN†	5,137	8,842	25,450	13,410	10,990	18,150	39,170	27,450	8,951	7,123	3,040	6,112
CFSM†	.72	1.23	3.55	1.87	1.53	2.53	5.47	3.83	1.25	.99	.42	.85
IN.†	.83	1.38	4.10	2.16	1.60	2.92	6.10	4.42	1.39	1.15	.49	.95

CAL YR 1973 TOTAL 6,253,193 MEAN 17,130 MAX 83,300 MIN 493 MEAN† 17,220 CFSM† 2.40 IN† 32.64
WTR YR 1974 TOTAL 5,286,227 MEAN 14,480 MAX 74,700 MIN 977 MEAN† 14,500 CFSM† 2.02 IN† 27.49

M Expressed in thousands.

† Adjusted for change in contents in all reservoirs from First Connecticut and Second Connecticut Lakes to Tully Reservoir on East Branch Tully River listed on page 214.

01167800 BEAVER BROOK AT WILMINGTON, VT.

LOCATION.--Lat 42°51'38", long 72°51'04", Windham County, on right bank 20 ft (6 m) downstream from bridge on State Highway 9, 1.0 mi (1.6 km) southeast of Wilmington, and 1.7 mi (2.7 km) upstream from mouth.

DRAINAGE AREA.--6.38 mi² (16.52 km²).

PERIOD OF RECORD.--February 1963 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 1,560 ft (475 m) from topographic map.

AVERAGE DISCHARGE.--11 years, 15.2 ft³/s (0.430 m³/s), 32.35 in/yr (822 mm/yr).

EXTREMES.--Current year: Maximum discharge, 901 ft³/s (25.5 m³/s) Dec. 21 (gage height, 7.55 ft or 2.301 m), from rating curve extended above 160 ft³/s (4.53 m³/s), on basis of slope-area measurement at gage height 8.61 ft (2.624 m); minimum, 0.76 ft³/s (0.022 m³/s) Aug. 16, 17.

Period of record: Maximum discharge, 1,140 ft³/s (32.3 m³/s) June 30, 1973 (gage height, 8.61 ft or 2.624 m), from rating curve extended above 160 ft³/s (4.53 m³/s) on basis of slope-area measurement of peak flow; maximum gage height, 8.73 ft (2.661 m) Jan. 19, 1965 (ice jam); minimum discharge, 0.06 ft³/s (0.002 m³/s) Aug. 1, 1965.

REMARKS.--Records good except those for winter period, which are fair, and those for period of no gage-height record, which are poor. Records of chemical analyses, water temperatures, and suspended-sediment loads for the current year are published in Part 2 of this report. Recording rain gage at station since Apr. 1, 1964 (no winter records).

REVISIONS (WATER YEARS).--WRD Mass., N.H., R.I., Vt., 1972: 1963(M), 1964(P), 1967-68(P), 1969-70, 1971(P).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.1	30	21	20	19	9.5	8.0	45	8.8	4.5	2.8	2.6
2	1.1	22	20	18	15	8.8	12	17	6.9	3.6	2.0	9.1
3	2.0	14	16	15	13	8.3	50	14	6.1	17	1.8	16
4	2.3	11	13	14	12	15	135	17	5.2	11	1.5	33
5	3.1	9.8	21	13	8.6	94	210	12	5.2	7.0	1.5	7.7
6	2.9	9.1	49	11	9.0	54	71	11	4.2	6.3	1.3	5.0
7	2.3	8.3	20	9.1	8.8	39	33	33	3.5	4.5	1.2	6.1
8	2.3	7.5	14	7.7	8.6	32	30	16	3.0	3.6	1.1	5.2
9	1.9	7.7	48	8.3	8.3	23	22	12	2.7	2.9	.95	3.7
10	1.6	5.4	88	8.5	7.8	17	21	39	2.3	2.4	.95	3.2
11	1.4	4.1	38	8.3	7.8	13	24	26	3.0	2.1	.95	2.5
12	1.3	4.3	23	7.7	7.0	10	25	47	2.3	1.8	.95	2.1
13	1.3	3.9	17	7.5	6.4	9.0	30	118	2.5	1.6	.95	2.8
14	1.4	8.0	40	8.5	6.0	8.4	72	31	2.0	1.5	.95	11
15	1.2	8.0	31	7.5	5.5	8.0	182	19	1.8	2.3	.89	5.0
16	1.2	16	19	6.9	5.0	10	43	17	2.0	2.0	.82	3.5
17	1.3	14	21	5.9	4.7	55	27	20	20	1.7	2.5	3.0
18	1.4	13	22	5.4	4.4	20	24	14	16	1.5	5.7	3.3
19	1.6	16	18	6.8	4.2	16	20	11	6.0	1.3	2.3	3.2
20	1.9	14	14	5.8	5.5	14	16	8.8	8.0	3.5	1.5	3.0
21	1.9	11	427	8.0	4.5	11	14	8.0	5.0	2.3	1.4	16
22	1.4	13	130	24	20	14	14	7.2	13	1.8	1.1	18
23	1.4	14	58	18	90	11	23	8.3	7.0	1.5	1.1	6.9
24	1.3	20	32	25	30	14	23	12	4.5	1.3	1.2	5.4
25	1.2	34	23	18	20	13	19	15	3.5	1.3	1.2	5.2
26	1.3	26	48	11	14	11	14	9.8	7.0	1.3	1.1	8.0
27	1.2	30	236	35	11	10	12	8.5	9.0	1.9	1.2	5.7
28	1.2	45	89	49	9.8	9.0	10	8.0	6.6	2.3	1.6	6.9
29	1.7	50	52	39	------	8.0	9.5	7.7	5.5	2.5	4.5	52
30	65	27	35	23	------	7.8	9.8	7.5	5.6	2.3	11	31
31	27	------	19	19	------	8.0	------	6.4	------	2.8	4.3	------
TOTAL	139.2	496.1	1.702	463.9	365.9	580.8	1.203.3	626.2	178.2	103.4	62.31	286.1
MEAN	4.49	16.5	54.9	15.0	13.1	18.7	40.1	20.2	5.94	3.34	2.01	9.54
MAX	65	50	427	49	90	94	210	118	20	17	11	52
MIN	1.1	3.9	13	5.4	4.2	7.8	8.0	6.4	1.8	1.3	.82	2.1
CFSM	.70	2.59	8.61	2.35	2.05	2.93	6.29	3.17	.93	.52	.32	1.50
IN.	.81	2.89	9.92	2.70	2.13	3.39	7.02	3.65	1.04	.60	.36	1.67

CAL YR 1973 TOTAL 8.739.46 MEAN 23.9 MAX 593 MIN .55 CFSM 3.75 IN 50.96
WTR YR 1974 TOTAL 6.207.41 MEAN 17.0 MAX 427 MIN .82 CFSM 2.66 IN 36.19

PEAK DISCHARGE (BASE, 230 ft³/s)

NOTE.-No gage-height record June 6 to July 24.

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-21	1430	7.55	901				
12-27	0315	5.78	521				
4-5	1500	4.84	337				
4-15	0045	6.33	634				
5-12	2345	5.00	367				

01168151 DEERFIELD RIVER NEAR ROWE, MASS.

LOCATION.--Lat 42°40'57", long 72°58'37", Franklin County, on left bank 0.1 mi (0.2 km) downstream from Fife Brook, 1.2 mi (1.9 km) northeast of Hoosac Tunnel, and 4 mi (6 km) west of Rowe.

DRAINAGE AREA.--254 mi² (658 km²).

PERIOD OF RECORD.--May to September 1974.

GAGE.--Water-stage recorder. Datum of gage is 745.000 ft (227.076 m) above mean sea level.

EXTREMES.--May to September 1974: Maximum discharge, 2,050 ft³/s (58.1 m³/s) May 25 (gage height, 7.14 ft or 2.176 m); minimum daily, 59 ft³/s (1.67 m³/s) June 8.

REMARKS.--Records good. Flow regulated by Somerset and Harriman Reservoirs (combined usable capacity, 7,560,000,000 ft³ or 214,000,000 m³) and by powerplants above station.

DISCHARGE, IN CUBIC FEET PER SECOND, MAY TO SEPTEMBER 1974

DAY	MAY	JUN	JUL	AUG	SEP
1		116	348	178	109
2		221	680	413	111
3		722	824	136	562
4		508	734	266	1,040
5		456	910	559	848
6		444	937	604	700
7		328	335	300	1,030
8		59	698	400	1,090
9		81	887	200	1,040
10		463	878	150	887
11		452	1,310	140	1,080
12		357	332	270	882
13		496	128	180	863
14		137	136	230	1,120
15		121	526	180	930
16		102	479	180	1,010
17		1,070	383	110	979
18		1,220	422	400	1,060
19		1,150	501	400	1,020
20		500	220	150	1,030
21		727	134	280	1,100
22		992	220	270	1,050
23		590	369	198	892
24	717	739	268	111	943
25	831	481	325	111	1,230
26	898	283	326	318	1,330
27	697	612	297	361	1,110
28	960	837	98	666	1,040
29	973	808	107	504	1,180
30	258	165	112	641	1,450
31	264	------	96	626	------
TOTAL		15,237	14,020	9,532	28,716
MEAN		508	452	307	957
MAX		1,220	1,310	666	1,450
MIN		59	96	110	109
MEAN†		480	256	191	740
CFSM†		1.89	1.01	.75	2.91
IN.†		2.11	1.16	.87	3.25

† Adjusted for change in contents in Somerset and Harriman Reservoirs.

01168500 DEERFIELD RIVER AT CHARLEMONT, MASS.

LOCATION.--Lat 42°37'33", long 72°51'20", Franklin County, on left bank 0.8 mi (1.3 km) east of Charlemont, 2.5 mi (4.0 km) downstream from Chickley River, and at mile 24.5 (kilometre 39.4).

DRAINAGE AREA.--362 mi² (938 km²).

PERIOD OF RECORD.--June 1913 to current year.

GAGE.--Water-stage recorder. Datum of gage is 517.36 ft (157.691 m) above mean sea level.

AVERAGE DISCHARGE.--61 years, 887 ft³/s (25.12 m³/s) 33.27 in/yr (845 mm/yr), adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 16,900 ft³/s (479 m³/s) Dec. 21 (gage height, 10.79 ft or 3.289 m); minimum daily, 57 ft³/s (1.61 m³/s) Oct. 21.

Period of record: Maximum discharge, 56,300 ft³/s (1,590 m³/s) Sept. 21, 1938 (gage height, 20.17 ft or 6.148 m, from floodmarks), from rating curve extended above 31,000 ft³/s (878 m³/s) on basis of slope-area and contracted-opening measurements at gage heights 17.75 and 20.17 ft (5.410 and 6.148 m); minimum daily, 5 ft³/s (0.14 m³/s) June 17, 1921.

REMARKS.--Records good. Flow regulated by Somerset Reservoir, since 1924 by Harriman Reservoir (see p. 214), and by several powerplants above station.

REVISIONS (WATER YEARS).--WSP 781: 1915(M). WSP 1301: 1918(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	221	1.190	425	2.370	1.680	1.370	551	950	534	285	224	193
2	321	1.300	220	2.260	1.310	1.150	670	570	413	764	400	296
3	297	1.080	424	2.150	853	527	1.040	1.050	749	987	209	747
4	282	494	486	1.980	836	919	2.360	1.450	684	980	264	1.490
5	250	773	805	1.900	1.400	1.810	4.700	660	584	2.590	637	1.000
6	157	622	1.520	1.880	1.370	1.650	3.470	520	559	1.820	642	807
7	112	552	994	1.460	1.570	1.730	2.570	720	483	765	312	1.120
8	112	302	578	1.740	1.740	1.720	2.100	1.120	245	871	437	1.170
9	236	320	896	1.420	1.730	1.540	1.880	1.430	135	1.040	289	1.090
10	193	192	1.550	827	1.440	1.480	1.720	1.380	420	975	180	912
11	297	90	1.030	1.290	1.440	1.370	1.710	1.956	518	1.260	144	1.120
12	281	170	1.170	552	1.670	1.010	1.700	1.720	478	468	300	848
13	116	200	1.030	309	1.670	690	1.600	4.290	425	352	187	896
14	102	222	1.400	859	1.670	463	1.600	2.910	325	214	248	1.370
15	208	168	1.200	1.060	1.640	477	4.430	2.440	212	991	191	1.010
16	301	200	427	505	1.620	528	2.750	2.230	192	687	224	1.030
17	145	125	1.030	145	1.440	1.280	2.040	1.750	1.140	478	155	1.000
18	372	209	905	302	971	943	1.670	1.590	1.360	530	461	1.100
19	216	196	803	287	868	988	1.100	1.030	1.250	564	473	1.050
20	146	203	753	234	1.350	629	1.480	938	636	360	197	1.040
21	57	194	7.340	333	1.070	753	1.100	1.270	780	222	321	1.240
22	116	142	5.710	1.170	1.370	850	945	796	1.270	288	297	1.150
23	212	109	2.760	952	2.130	536	1.040	367	638	390	223	1.050
24	194	105	2.300	1.530	2.040	683	464	675	823	356	150	1.020
25	283	345	1.990	1.250	1.610	843	675	1.220	646	362	142	1.250
26	278	548	3.040	1.120	1.450	775	744	1.180	436	391	308	1.390
27	125	653	7.410	1.710	1.170	556	556	946	733	375	372	1.200
28	121	753	4.410	2.100	1.360	622	360	1.150	935	206	746	1.100
29	438	1.110	3.190	1.990	------	545	520	1.190	912	150	562	1.550
30	1.450	649	2.710	1.720	------	452	500	485	403	206	834	1.580
31	671	------	2.430	1.630	------	598	------	463	------	164	817	------
TOTAL	8.310	13.206	60.936	39.415	40.466	29.527	49.005	40.640	16.959	20.091	10.946	31.819
MEAN	268	440	1.966	1.271	1.445	952	1.634	1.311	632	648	353	1.061
MAX	1.450	1.300	7.410	2.370	2.130	1.810	4.700	4.290	1.360	2.590	834	1.580
MIN	57	90	220	145	836	452	360	367	135	150	142	193
MEAN†	190	545	2.631	850	679	1.230	2.534	1.476	604	452	236	843
CFSM†	.52	1.51	7.27	2.35	1.88	3.40	7.00	4.08	1.67	1.25	.65	2.33
IN.†	.61	1.68	8.38	2.71	1.95	3.92	7.81	4.70	1.86	1.44	.75	2.60

CAL YR 1973 TOTAL 418.548 MEAN 1.147 MAX 7.410 MIN 57 MEAN† 1.197 CFSM† 3.31 IN† 44.89
WTR YR 1974 TOTAL 363.320 MEAN 995 MAX 7.410 MIN 57 MEAN† 1.024 CFSM† 2.83 IN† 38.42

† Adjusted for change in contents in Somerset and Harriman Reservoirs.

01169000 NORTH RIVER AT SHATTUCKVILLE, MASS.

LOCATION.--Lat 42°38'18", long 72°43'32", Franklin County, on right bank in Shattuckville, 1.2 mi (1.9 km) south of Griswoldville and 1.3 mi (2.1 km) upstream from mouth.

DRAINAGE AREA.--88.4 mi^2 (229.0 km^2).

PERIOD OF RECORD.--October 1939 to current year. October and November 1939 monthly discharge only, published in WSP 1301.

GAGE.--Water-stage recorder. Datum of gage is 458.36 ft (139.708 m) above mean sea level.

AVERAGE DISCHARGE.--35 years, 178 ft^3/s (5.041 m^3/s), 27.34 in/yr (694 mm/yr).

EXTREMES.--Current year: Maximum discharge, 9,940 ft^3/s (282 m^3/s) Dec. 21 (gage height, 9.60 ft or 2.926 m); minimum, 8.3 ft^3/s (0.24 m^3/s) Oct. 21; minimum daily, 15 ft^3/s (0.42 m^3/s) Aug. 27.

Period of record: Maximum discharge, 13,200 ft^3/s (374 m^3/s) Oct. 15, 1955 (gage height, 10.37 ft or 3.161 m), from rating curve extended above 5,700 ft^3/s (161 m^3/s) on basis of computation of flow over dam at gage height 9.62 ft (2.932 m); minimum daily, 5.1 ft^3/s (0.14 m^3/s) Oct. 3, 1948.

REMARKS.--Records good. Diurnal fluctuation at times caused by mill above station; because storage capacity is small, daily flows are not affected appreciably. Prior to 1959, greater regulation by mill.

REVISIONS (WATER YEARS).--WSP 1111: 1945(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	199	116	232	361	154	222	481	216	73	33	57
2	18	186	90	184	245	150	277	295	182	61	52	114
3	23	107	80	170	235	132	517	249	148	182	36	206
4	30	78	77	160	205	182	1,120	319	127	144	30	502
5	30	64	134	160	175	531	1,940	235	111	499	50	161
6	29	57	380	160	165	467	1,010	206	96	354	33	90
7	28	52	184	175	168	426	513	490	86	168	27	106
8	25	49	132	150	160	422	476	304	78	116	24	99
9	23	47	438	145	155	280	395	246	73	93	22	67
10	20	43	610	150	145	249	347	733	68	75	21	54
11	19	39	295	166	130	204	350	503	61	63	20	47
12	19	40	209	150	125	186	463	463	55	57	18	41
13	19	42	158	135	120	144	546	1,690	54	50	17	40
14	19	42	357	125	115	158	610	560	50	47	16	170
15	18	40	313	135	105	140	2,030	399	48	55	16	90
16	17	48	204	138	100	211	675	313	70	49	16	60
17	18	51	165	125	96	1,080	490	332	332	42	17	50
18	19	43	155	115	93	406	418	274	214	38	46	54
19	21	42	138	125	87	295	372	227	113	39	45	49
20	21	38	127	110	121	251	310	196	110	53	31	55
21	22	36	4,130	118	115	343	280	170	170	41	25	110
22	18	44	1,320	316	229	376	268	164	204	36	21	200
23	19	44	531	246	560	286	354	222	108	33	19	88
24	19	43	339	292	280	434	414	268	84	31	20	64
25	18	100	260	206	219	332	339	422	80	32	18	55
26	19	95	580	184	160	265	271	251	116	32	16	93
27	19	95	2,390	546	155	235	235	219	146	35	15	73
28	18	216	1,200	669	144	209	214	194	115	39	66	64
29	21	304	531	605	------	179	196	182	94	36	58	400
30	522	152	329	414	------	177	186	177	90	35	167	150
31	216	------	232	365	------	189	------	156	------	42	101	------
TOTAL	1,347	2,436	16,196	6,971	4,968	9,093	15,838	10,940	3,499	2,650	1,096	3,409
MEAN	43.5	81.2	522	225	177	293	528	353	117	85.5	35.4	114
MAX	522	304	4,130	669	560	1,080	2,030	1,690	332	499	167	502
MIN	17	36	77	110	87	132	186	156	48	31	15	40
CFSM	.49	.92	5.91	2.55	2.00	3.31	5.97	3.99	1.32	.97	.40	1.29
IN.	.57	1.03	6.82	2.93	2.09	3.83	6.66	4.60	1.47	1.12	.46	1.43

CAL YR 1973 TOTAL 106,284 MEAN 291 MAX 5,820 MIN 17 CFSM 3.29 IN 44.73
WTR YR 1974 TOTAL 78,443 MEAN 215 MAX 4,130 MIN 15 CFSM 2.43 IN 33.01

PEAK DISCHARGE (BASE, 2,200 ft^3/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-21	1545	9.60	9,940	4-15	0230	7.47	4,710
12-27	0430	7.20	4,220	5-13	0115	7.01	3,890
4-5	1730	6.72	3,400				

NOTE.--No gage-height reord Sept. 29, 30.

01169900 SOUTH RIVER NEAR CONWAY, MASS.

LOCATION.--Lat 42°32'31", long 72°41'39", Franklin County, on left bank at upstream side of Roads Bridge just off Bardwell Road, 2.2 mi (3.5 km) north of Conway, and 2.6 mi (4.2 km) upstream from mouth.

DRAINAGE AREA.--24.0 mi² (62.2 km²).

RECORDS AVAILABLE.--June 1966 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 460 ft (140 m) from topographic map. Prior to Oct. 7, 1970, at downstream side of bridge at same site and datum.

AVERAGE DISCHARGE.--8 years, 53.7 ft³/s (1.521 m³/s), 30.39 in/yr (772 mm/yr).

EXTREMES.--Current year: Maximum discharge, 2,480 ft³/s (70.2 m³/s) Dec. 21 (gage height, 7.77 ft or 2.368 m), from rating curve extended as explained below; minimum not determined; minimum daily, 4.7 ft³/s (0.13 m³/s) Aug. 27.
Period of record: Maximum discharge, 2,480 ft³/s (70.2 m³/s) Dec. 21, 1973 (gage height, 7.77 ft or 2.368 m), from rating curve extended above 390 ft³/s (11.0 m³/s) on basis of slope-area measurement of peak flow; minimum, 3.0 ft³/s (0.085 m³/s) Aug. 21, 22, Sept. 2, 3, 1966.

REMARKS.--Records good except those for winter period, which are fair.

REVISIONS.--WRD Mass., N.H., R.I., Vt., 1973: 1968-70(P), 1971(M), 1972(P).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.2	59	48	97	84	58	90	89	68	23	8.2	11
2	7.8	45	45	80	64	57	105	55	51	20	6.8	18
3	9.2	25	46	70	62	52	104	54	42	61	6.7	28
4	9.3	20	44	65	52	74	124	64	37	36	6.9	55
5	9.4	17	77	65	50	109	132	51	34	126	9.5	25
6	9.5	16	137	65	50	87	111	49	30	88	7.5	18
7	9.2	15	70	68	49	81	84	61	27	41	6.8	23
8	9.0	15	58	62	47	76	77	50	25	31	6.6	17
9	8.7	15	192	56	45	63	79	47	24	25	6.2	14
10	8.5	15	168	58	43	63	76	100	23	22	6.1	13
11	8.7	17	87	62	41	57	90	75	20	19	5.6	12
12	8.7	15	72	56	39	54	114	113	20	18	5.3	10
13	8.7	16	68	50	39	48	117	256	22	15	5.3	13
14	8.0	16	144	45	38	63	103	91	20	15	5.2	33
15	7.8	16	100	48	37	47	292	74	17	30	5.0	16
16	8.2	19	80	50	36	114	115	64	28	19	4.8	13
17	8.2	18	68	45	34	276	99	73	75	15	5.3	11
18	8.2	17	60	41	33	98	87	60	42	13	12	11
19	8.7	18	54	44	31	81	80	54	29	13	8.0	10
20	8.7	17	50	40	43	77	72	49	27	13	6.6	11
21	8.7	18	1,100	42	40	169	67	48	29	11	5.6	19
22	8.7	21	236	110	150	134	68	46	33	10	5.2	23
23	8.7	21	119	90	170	110	66	57	24	10	5.6	14
24	8.7	22	94	100	85	131	74	64	22	9.6	5.8	12
25	8.7	35	109	60	63	91	66	80	23	10	5.2	11
26	8.7	43	137	55	58	78	58	55	38	9.6	4.9	13
27	8.7	36	345	192	58	75	53	48	42	9.6	4.7	12
28	8.7	72	251	126	57	69	51	47	32	9.7	9.0	13
29	13	77	136	146	------	63	50	46	31	11	20	49
30	240	54	117	95	------	63	49	46	27	9.7	30	29
31	63	------	94	87	------	69	------	42	------	9.6	15	------
TOTAL	558.3	810	4,406	2,270	1,598	2,687	2,753	2,108	962	752.8	245.4	557
MEAN	18.0	27.0	142	73.2	57.1	86.7	91.8	68.0	32.1	24.3	7.92	18.6
MAX	240	77	1,100	192	170	276	292	256	75	126	30	55
MIN	7.8	15	44	40	31	47	49	42	17	9.6	4.7	10
CFSM	.75	1.13	5.92	3.05	2.38	3.61	3.83	2.83	1.34	1.01	.33	.78
IN.	.87	1.26	6.83	3.52	2.48	4.16	4.27	3.27	1.49	1.17	.38	.86

CAL YR 1973 TOTAL 28,001.8 MEAN 76.7 MAX 1,100 MIN 7.8 CFSM 3.20 IN 43.40
WTR YR 1974 TOTAL 19,707.5 MEAN 54.0 MAX 1,100 MIN 4.7 CFSM 2.25 IN 30.55

PEAK DISCHARGE (BASE, 660 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10-30	0645	5.42	771	3-17	0115	5.27	690
12-9	1945	5.40	760	4-15	0215	5.50	815
12-21	1615	7.77	2,480	5-12	2345	5.72	942
12-27	0400	5.24	675				

01170000 DEERFIELD RIVER NEAR WEST DEERFIELD, MASS.

LOCATION.--Lat 43°32'09", long 72°39'14", Franklin County, on right bank 0.4 mi (0.6 km) downstream from South River, 1.2 mi (1.9 km) west of West Deerfield, 2.5 mi (4.0 km) west of Deerfield, and 9.2 mi (14.8 km) upstream from mouth.

DRAINAGE AREA.--558 mi² (1,445 km²).

PERIOD OF RECORD.--March to November 1904, January 1905, March to December 1905, October 1940 to current year. Published as "at Deerfield" 1904-5.

GAGE.--Water-stage recorder. Altitude of gage is 155 ft (47 m) from topographic map. Prior to Dec. 16, 1905, nonrecording gage at site 1.5 mi (2.4 km) downstream at different datum.

AVERAGE DISCHARGE.--34 years (1940-74), 1,257 ft³/s (35.60 m³/s), 30.59 in/yr (777 mm/yr), adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 32,200 ft³/s (912 m³/s) Dec. 21 (gage height, 12.25 ft or 3.734 m); minimum daily, 98 ft³/s (2.78 m³/s) Oct. 21.
Period of record: Maximum discharge, 48,500 ft³/s (1,370 m³/s) Dec. 31, 1948 (gage height, 15.3 ft or 4.703 m); minimum daily, 28 ft³/s (0.79 m³/s) July 29, 1962.

REMARKS.--Records good except those for periods of no gage-height record, which are fair. Flow regulated since 1913 by Somerset Reservoir, since 1924 by Harriman Reservoir (see p. 214), and by several powerplants above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	241	1.100	695	3.100	2.390	1.500	1.090	1.400	1.000	385	270	320
2	560	1.780	361	2.860	1.800	1.490	1.280	950	620	881	466	420
3	252	1.340	491	2.670	1.300	800	1.700	1.300	1.000	1.440	292	919
4	278	975	674	2.430	1.150	1.050	3.630	1.900	1.100	1.480	316	2.470
5	346	681	1.080	2.250	1.700	2.600	6.920	1.050	780	3.290	720	1.410
6	260	782	2.360	2.210	1.750	2.500	5.810	820	740	2.960	701	997
7	186	605	1.360	2.230	1.800	2.400	3.600	1.150	680	1.310	366	1.280
8	122	561	944	2.030	1.850	2.500	3.000	1.500	500	1.080	546	1.420
9	289	336	1.330	1.740	2.000	2.100	2.700	2.000	230	1.290	426	1.170
10	246	321	3.080	1.160	1.870	2.000	2.400	2.200	620	1.190	165	1.020
11	356	202	1.570	1.650	1.700	1.800	2.300	3.000	640	1.200	170	1.110
12	320	157	1.550	1.200	1.980	1.600	2.500	2.500	620	908	340	1.080
13	205	275	1.360	660	2.000	1.200	2.500	7.000	538	403	278	1.060
14	191	322	2.010	1.100	2.000	820	2.400	4.200	555	322	283	1.570
15	161	317	2.110	1.600	1.960	880	6.400	3.300	338	1.200	221	1.250
16	386	320	886	1.100	2.100	1.080	4.100	3.000	585	692	211	1.160
17	360	320	1.390	600	1.900	3.350	3.100	2.500	1.580	677	339	1.180
18	330	323	1.270	250	1.300	1.780	2.300	2.300	1.730	550	675	1.230
19	298	111	1.060	450	1.100	1.520	1.850	1.700	1.540	664	539	1.270
20	268	387	1.080	400	1.690	1.260	1.840	1.300	879	594	300	1.010
21	98	309	13.900	600	1.400	1.630	1.600	1.800	986	338	302	1.360
22	120	300	8.700	1.800	1.800	1.820	1.300	1.100	1.880	356	306	1.830
23	206	200	3.910	1.700	3.000	1.300	1.500	760	804	439	678	1.040
24	338	206	3.190	2.200	2.700	1.620	1.600	1.050	978	437	156	1.060
25	336	513	2.590	2.000	2.200	1.390	1.100	2.200	823	375	181	1.410
26	304	691	3.850	1.550	1.700	1.450	1.000	1.500	737	542	276	1.580
27	232	892	11.000	2.550	1.400	992	840	1.600	863	434	566	1.550
28	139	1.100	6.960	3.480	1.500	1.080	740	1.550	1.270	386	684	1.300
29	450	1.600	4.560	3.240	------	960	740	1.550	1.120	256	894	2.050
30	2.520	1.080	3.710	2.570	------	936	740	1.050	679	291	1.150	1.900
31	1.460	------	3.160	2.310	------	1.010	------	830	------	268	1.220	------
TOTAL	11.839	18.106	91.971	55.690	50.930	48.328	72.580	60.060	26.415	26.638	13.635	38.326
MEAN	382	604	2.967	1.796	1.819	1.559	2.419	1.937	881	859	440	1.278
MAX	2.520	1.780	13.900	3.480	3.000	3.350	6.920	7.000	1.880	3.290	1.220	2.470
MIN	98	111	361	250	1.100	800	740	760	230	256	156	320
MEAN†	304	708	3.632	1.375	1.053	1.837	3.320	2.103	853	663	323	1.060
CFSM†	.54	1.27	6.51	2.46	1.89	3.29	5.95	3.77	1.53	1.19	.58	1.90
IN.†	.63	1.42	7.51	2.84	1.97	3.80	6.64	4.35	1.71	1.37	.67	2.12

CAL YR 1973 TOTAL 621.310 MEAN 1.702 MAX 13.900 MIN 98 MEAN† 1.752 CFSM† 3.14 IN† 42.64
WTR YR 1974 TOTAL 514.518 MEAN 1.410 MAX 13.900 MIN 98 MEAN† 1.438 CFSM† 2.58 IN† 35.00

† Adjusted for change in contents in Somerset and Harriman Reservoirs.
NOTE.--No gage-height record Feb. 16 to Mar. 15, Apr. 7-18, Apr. 21 to June 10.

01170100 GREEN RIVER NEAR COLRAIN, MASS.

LOCATION.--Lat 42°42'12", long 72°40'16", Franklin County, on right bank 0.5 mi (0.8 km) upstream from bridge on West Leyden Road and 2.5 mi (4.0 km) northeast of Colrain.

DRAINAGE AREA.--41.4 mi² (107.2 km²).

PERIOD OF RECORD.--October 1967 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 435 ft (133 m) from topographic map.

AVERAGE DISCHARGE.--7 years, 96.9 ft³/s (2.744 m³/s), 31.79 in/yr (807 mm/yr).

EXTREMES.--Current year: Maximum discharge, 4,560 ft³/s (129 m³/s) Dec. 21 (gage height, 8.2 ft or 2.50 m, from floodmarks), from rating curve extended above 890 ft³/s (25.2 m³/s) on basis of slope-area measurement of peak flow; minimum, 6.5 ft³/s (0.18 m³/s) Aug. 16.

Period of record: Maximum discharge, 4,560 ft³/s (129 m³/s) Dec. 21, 1973 (gage height, 8.2 ft or 2.50 m, from floodmarks), from rating curve extended above 890 ft³/s (25.2 m³/s) on basis of slope-area measurement of peak flow; minimum, 1.9 ft³/s (0.054 m³/s) Aug. 1, 1968.

REMARKS.--Records good except those for winter period and period of no gage-height record, which are fair.

REVISIONS.--WRD Mass., N.H., R.I., Vt., 1971: 1968(M), 1969.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.2	59	38	120	152	66	99	267	91	29	14	17
2	8.2	59	31	100	113	65	120	154	79	25	13	38
3	11	34	31	88	109	57	206	131	65	60	13	42
4	12	27	29	85	100	75	421	159	58	110	14	53
5	11	24	38	84	90	193	670	120	52	180	23	48
6	13	21	145	85	86	197	398	108	47	110	13	27
7	11	20	69	88	86	179	241	213	41	62	11	31
8	11	18	47	78	82	179	226	142	38	47	10	30
9	9.5	18	95	76	80	115	181	117	34	37	9.3	23
10	9.2	16	281	78	74	104	165	251	32	30	8.7	20
11	8.5	16	120	86	68	86	167	237	29	26	8.3	17
12	8.5	17	79	78	64	79	206	226	27	23	8.0	15
13	8.5	16	58	70	62	64	237	566	26	20	7.7	16
14	8.5	16	129	66	60	76	275	267	24	20	7.4	58
15	8.2	16	134	72	57	64	766	197	24	23	7.2	29
16	7.8	17	80	74	53	102	315	159	26	20	7.0	21
17	7.5	19	60	65	50	465	233	159	135	17	7.6	18
18	7.8	17	55	60	48	187	200	133	72	16	22	19
19	8.8	16	48	66	45	133	181	109	42	18	14	18
20	8.8	15	46	58	56	113	154	97	36	22	11	17
21	8.8	15	1,500	56	54	137	137	89	48	17	8.9	23
22	8.5	17	500	140	110	154	135	83	65	15	7.6	82
23	8.5	16	220	120	240	122	187	92	39	13	8.6	34
24	8.5	16	160	130	100	179	237	115	32	12	9.2	24
25	8.5	27	120	80	76	135	190	167	32	12	7.9	23
26	8.5	31	250	75	68	113	149	111	45	12	7.0	33
27	8.5	28	850	240	66	102	128	100	56	13	8.2	27
28	8.2	62	450	260	63	91	115	89	46	14	16	24
29	8.8	110	220	255	------	80	108	86	37	15	16	97
30	171	53	140	179	------	79	102	83	36	15	47	64
31	71	------	125	157	------	85	------	74	------	19	26	------
TOTAL	505.8	836	6,148	3,269	2,312	3,876	6,949	4,901	1,414	1,052	391.6	988
MEAN	16.3	27.9	198	105	82.6	125	232	158	47.1	33.9	12.6	32.9
MAX	171	110	1,500	260	240	465	766	566	135	180	47	97
MIN	7.5	15	29	56	45	57	99	74	24	12	7.0	15
CFSM	.39	.67	4.78	2.54	2.00	3.02	5.60	3.82	1.14	.82	.30	.79
IN.	.45	.75	5.52	2.94	2.08	3.48	6.24	4.40	1.27	.95	.35	.89

CAL YR 1973 TOTAL 49,080.0 MEAN 134 MAX 2,320 MIN 7.5 CFSM 3.24 IN 44.10
WTR YR 1974 TOTAL 32,642.4 MEAN 89.4 MAX 1,500 MIN 7.0 CFSM 2.16 IN 29.33

NOTE.--No gage-height record Dec. 16 to Jan. 7.

PEAK DISCHARGE (BASE, 800 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-21	-	*8.2	4,560	4-15	0200	6.20	2,110
12-27	-	-	†1,500	5-13	0045	5.40	1,390
4-5	1715	5.41	1,400				

* From floodmarks.
† About.

01170500 CONNECTICUT RIVER AT MONTAGUE CITY, MASS.

LOCATION.--Lat 42°34'48", long 72°34'30", Franklin County, on left bank 75 ft (23 m) downstream from Penn Central Railroad bridge at Montague City, 1,000 ft (300 m) downstream from Deerfield River, and at mile 119.0 (kilometre 191.5).

DRAINAGE AREA.--7,865 mi² (20,370 km²).

PERIOD OF RECORD.--March 1904 to current year. Prior to October 1929, published as "at Sunderland." Records published for both sites October 1929 to September 1932.

GAGE.--Water-stage recorder. Datum of gage is 99.87 ft (30.440 m) above mean sea level. Prior to Oct. 1, 1917, nonrecording gage; Oct. 1, 1917, to Oct. 8, 1921, water-stage recorder used for low stages, nonrecording gage otherwise; and Oct. 9, 1921, to Sept. 30, 1932, water-stage recorder; all at site 9 mi (14 km) downstream at datum 1.00 ft (0.305 m) lower. Since Oct. 1, 1929, water-stage recorder at present site and datum.

AVERAGE DISCHARGE.--70 years, 13,630 ft³/s (386.0 m³/s), 23.53 in/yr (598 mm/yr), adjusted for storage since October 1923.

EXTREMES.--Current year: Maximum discharge, 92,200 ft³/s (2,610 m³/s) Dec. 22 (gage height, 30.49 ft or 9.293 m); minimum daily, 1,500 ft³/s (42.5 m³/s) Oct. 21.
Period of record: Maximum discharge, 236,000 ft³/s (6,680 m³/s) Mar. 19, 1936 (gage height, 49.2 ft or 15.00 m, from floodmarks); minimum daily, 215 ft³/s (6.09 m³/s) Aug. 31, Sept. 1, 1958.

REMARKS.--Records excellent except those for winter period, which are good. Flow regulated by powerplants and by First Connecticut and Second Connecticut Lakes, Lake Francis, Moore and Comerford Reservoirs (see p. 214), and other reservoirs (combined usable capacity, about 43,400,000,000 ft³ or 1,230,000,000 m³).

REVISIONS (WATER YEARS).--WSP 471: 1904-17. WSP 741: 1930-32. WSP 781: 1928(M). WSP 891: Drainage area. WSP 1051: 1905, 1909-10, 1912-14, 1920, 1922-23, 1925-26, 1928, drainage area at Sunderland. WSP 1301: 1905(M), 1914-19(M), 1930-31(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4,740	9,010	13,900	32,500	27,400	16,100	13,900	40,900	22,500	7,760	6,130	4,460
2	5,900	14,400	12,400	32,000	23,300	14,400	14,500	46,100	20,600	9,900	7,300	5,210
3	6,740	13,500	9,560	24,400	17,000	14,000	14,700	46,400	18,500	11,400	3,810	8,840
4	6,320	10,000	11,300	19,500	18,800	13,400	28,900	41,800	17,400	5,400	2,070	14,100
5	9,190	10,900	10,900	16,900	18,000	18,400	51,200	37,000	14,600	11,200	6,410	13,800
6	8,870	10,700	14,600	16,500	16,500	34,200	74,700	34,800	13,900	17,400	7,470	15,400
7	11,100	7,700	16,500	14,500	15,000	39,300	62,800	31,300	12,300	18,300	5,970	10,300
8	10,900	5,800	15,400	15,000	15,500	43,900	51,600	25,200	12,000	13,800	6,970	4,080
9	8,060	6,300	15,700	13,000	14,000	46,500	47,800	24,600	5,740	11,500	2,940	7,360
10	8,290	4,900	18,000	14,000	12,500	31,600	38,000	25,500	8,590	11,200	1,580	6,520
11	6,780	2,600	19,700	13,000	13,000	25,800	36,500	30,600	11,100	14,000	1,810	7,160
12	7,470	5,600	16,400	12,000	16,000	21,600	32,100	32,100	9,940	12,800	3,100	7,980
13	5,350	5,200	14,700	9,600	13,000	18,000	30,000	48,100	7,470	7,610	3,710	7,100
14	3,080	3,800	16,000	9,400	15,500	15,300	29,700	52,800	6,800	4,270	3,620	4,590
15	6,580	8,600	18,600	12,000	14,500	15,700	47,700	46,700	6,950	9,540	2,590	4,420
16	5,430	7,700	19,700	14,000	11,900	12,900	61,600	35,600	5,000	9,640	3,250	5,550
17	5,010	11,700	17,200	12,000	9,260	33,000	59,600	31,700	10,300	8,070	1,760	5,490
18	5,080	15,900	14,300	10,500	11,300	33,100	50,500	28,600	12,800	8,230	1,730	5,590
19	7,430	11,800	11,500	7,500	9,730	23,400	43,500	26,600	13,500	6,820	6,500	5,670
20	3,970	8,890	12,300	11,500	10,800	22,100	38,500	22,000	13,500	7,370	3,650	4,300
21	1,500	8,170	35,300	14,000	11,100	21,900	37,000	20,300	13,900	5,140	3,630	5,940
22	5,030	5,620	87,000	17,000	14,000	21,900	34,100	17,600	12,400	7,700	4,200	9,020
23	5,200	6,710	76,600	18,000	23,300	19,800	35,800	13,100	6,610	7,170	5,150	11,400
24	7,320	10,300	61,000	19,000	29,800	17,400	44,800	21,600	7,460	6,960	3,100	12,300
25	6,260	7,290	46,000	19,900	25,700	21,700	50,500	34,000	8,170	6,810	1,740	11,100
26	5,160	10,400	41,000	18,100	20,700	19,300	51,200	33,000	6,880	6,110	2,180	8,200
27	3,650	11,300	57,300	19,100	18,300	18,800	43,900	33,300	6,000	3,610	2,730	7,960
28	3,850	11,500	70,800	33,300	16,200	16,900	36,500	35,900	7,350	2,150	4,550	6,220
29	7,640	14,800	65,400	37,500	-------	15,100	30,400	32,400	7,760	5,520	3,550	9,750
30	10,300	14,400	52,000	32,400	-------	13,200	31,300	25,900	4,440	6,600	7,900	9,830
31	9,930	-------	43,000	28,300	-------	13,400	-------	21,200	-------	5,490	8,220	-------
TOTAL	202,130	275,570	934,060	566,400	462,090	692,100	1,223.3M	996,700	324,460	269,470	129,320	238,840
MEAN	6,520	9,186	30,130	18,270	16,500	22,330	40,780	32,150	10,820	8,693	4,172	7,961
MAX	11,100	15,900	87,000	37,500	29,800	46,500	74,700	52,800	22,500	18,300	8,220	15,400
MIN	1,500	2,600	9,560	7,500	9,260	12,900	13,900	13,100	4,440	2,150	1,580	4,080
MEAN†	5,644	9,868	31,820	16,780	13,730	21,930	44,890	32,830	10,740	8,268	3,683	7,746
CFSM†	.72	1.25	4.05	2.13	1.75	2.79	5.71	4.17	1.37	1.05	.47	.98
IN.†	.83	1.40	4.67	2.46	1.82	3.22	6.37	4.81	1.52	1.21	.54	1.10

CAL YR 1973 TOTAL 7,356,242 MEAN 20,150 MAX 91,800 MIN 992 MEAN† 20,290 CFSM† 2.58 IN† 35.03
WTR YR 1974 TOTAL 6,314,440 MEAN 17,300 MAX 87,000 MIN 1,500 MEAN† 17,350 CFSM† 2.21 IN† 29.95

PEAK DISCHARGE (BASE, 61,000 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-22	1900	30.49	92,200				
12-28	2045	27.06	74,100				
4-6	1445	27.78	77,900				
4-16	0915	24.76	62,900				

M Expressed in thousands.

† Adjusted for change in contents in all reservoirs from First Connecticut and Second Connecticut Lakes to 2 reservoirs in Deerfield River basin listed on page 214.

01171300 FORT RIVER NEAR AMHERST, MASS.

LOCATION (revised).--Lat 42°21'30", long 72°30'23", Hampshire County, on left bank 400 ft (120 m) downstream from Southeast Street Bridge, 600 ft (180 m) downstream from Hop Brook, and 1.3 mi (2.1 km) southeast of Amherst. Prior to May 10, 1974, at site 400 ft (120 m) upstream.

DRAINAGE AREA.--40.6 mi² (105.2 km²), excludes 1.04 mi² (2.69 km²) drained by Nourse Brook, flow of which is diverted from basin.

PERIOD OF RECORD.--June 1966 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 147 ft (45 m) from topographic map. Prior to May 10, 1974, at site 400 ft (120 m) upstream at same datum.

AVERAGE DISCHARGE.--8 years, 62.9 ft³/s (1.781 m³/s), 21.04 in/yr (534 mm/yr), adjusted for diversion.

EXTREMES.--Current year: Maximum discharge, 2,820 ft³/s (79.9 m³/s) Dec. 21 (gage height, 9.88 ft or 3.011 m), from rating curve extended above 690 ft³/s (19.5 m³/s); minimum, 5.9 ft³/s (0.17 m³/s) Aug. 23.

Period of record: Maximum discharge, 2,820 ft³/s (79.9 m³/s) Dec. 21, 1973 (gage height, 9.88 ft or 3.011 m), from rating curve extended above 690 ft³/s (19.5 m³/s); minimum, 1.9 ft³/s (0.054 m³/s) Sept. 3, 1966.

Floods of March 1936 and September 1938 reached discharges of 2,360 ft³/s (66.8 m³/s) and 1,640 ft³/s (46.4 m³/s), respectively, by computation of flow over dam 1.2 mi (1.9 km) downstream.

REMARKS.--Records good except those for October and November and period of no gage-height record, which are fair. Diversion above station for municipal supply of Amherst.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	29	25	88	88	56	88	150	156	19	11	16
2	17	26	22	80	60	58	95	90	162	17	10	14
3	22	21	20	68	44	51	100	60	83	59	10	57
4	16	19	20	64	68	66	100	80	55	56	10	82
5	14	17	33	55	62	80	105	56	45	49	15	44
6	14	16	47	54	61	72	130	48	38	105	11	21
7	14	18	48	50	59	65	100	60	33	66	10	27
8	14	18	31	45	52	60	86	50	29	33	9.6	43
9	14	16	45	34	49	54	83	45	27	25	9.2	21
10	13	16	75	41	47	52	74	105	25	21	8.7	15
11	13	16	45	45	44	46	70	145	22	17	8.0	14
12	13	16	34	46	43	42	62	168	21	16	7.6	13
13	13	17	27	40	48	38	90	397	22	15	7.6	15
14	14	18	37	37	44	35	98	203	20	14	7.2	53
15	13	18	41	41	41	33	200	129	18	24	6.8	48
16	13	22	31	39	38	50	130	98	17	19	6.2	22
17	13	20	29	37	36	400	95	100	39	16	6.2	17
18	14	14	33	31	35	190	90	88	29	14	11	17
19	15	14	25	37	35	120	72	69	21	16	9.0	15
20	15	14	24	41	75	90	66	59	21	17	7.6	15
21	14	14	1,090	45	64	150	62	53	22	14	6.8	28
22	13	17	778	70	100	250	58	45	29	13	6.5	51
23	14	18	188	64	250	160	66	49	23	15	11	29
24	13	18	108	73	130	130	68	52	21	13	16	19
25	13	35	78	59	90	100	62	63	21	14	13	17
26	14	26	75	48	68	85	54	52	32	12	9.3	16
27	15	21	251	150	56	76	48	49	31	12	8.8	15
28	16	46	326	218	52	68	46	46	30	12	17	17
29	19	55	209	204	------	62	44	44	25	11	16	190
30	58	36	144	135	------	60	43	49	22	12	32	142
31	44	------	107	103	------	74	------	45	------	12	23	------
TOTAL	523	634	4,086	2,143	1,858	2,874	2,485	2,687	1,139	758	341.1	1,093
MEAN	16.9	21.1	132	69.1	66.4	92.7	82.8	86.7	38.0	24.5	11.0	36.4
MAX	58	55	1,090	218	250	400	200	397	162	105	32	190
MIN	13	14	20	31	35	33	43	44	17	11	6.2	13
MEAN †	17.6	21.6	132	69.2	66.5	92.9	83.1	86.9	38.0	24.8	11.6	37.2
CFSM †	.43	.53	3.25	1.70	1.64	2.29	2.05	2.14	.94	.61	.29	.92
IN. †	.50	.59	3.76	1.96	1.71	2.64	2.28	2.47	1.05	.71	.33	1.02

CAL YR 1973 TOTAL 29,730.0 MEAN 81.5 MAX 1,090 MIN 11 MEAN† 82.2 CFSM† 2.02 IN† 27.47
WTR YR 1974 TOTAL 20,621.1 MEAN 56.5 MAX 1,090 MIN 6.2 MEAN† 56.9 CFSM† 1.40 IN† 19.02

PEAK DISCHARGE (BASE, 500 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-21	1945	9.88	2,820				
4-17	-	-	*550				
5-13	0830	4.60	539				

* About.

† Adjusted for diversion for municipal supply of Amherst. Diversion records furnished by town of Amherst.

NOTE.--No gage-height record Feb. 5 to May 9.

01171500 MILL RIVER AT NORTHAMPTON, MASS.

LOCATION.--Lat 42°19'05", long 72°39'21", Hampshire County, on right bank at Northampton, 3.5 mi (5.6 km) upstream from mouth.

DRAINAGE AREA.--54.0 mi² (139.9 km²), revised.

PERIOD OF RECORD.--October 1938 to current year. October 1938 monthly discharge only, published in WSP 1301.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 140 ft (43 m) from topographic map.

AVERAGE DISCHARGE.--36 years, 93.8 ft³/s (2.656 m³/s), 23.59 in/yr (599 mm/yr).

EXTREMES.--Current year: Maximum discharge, 3,580 ft³/s (101 m³/s) Dec. 21 (gage height, 8.90 ft or 2.713 m), from rating curve extended above 1,900 ft³/s (53.8 m³/s) on basis of computations of flow over dam at gage heights 7.58 and 9.38 ft (2.310 and 2.859 m); minimum, 9.5 ft³/s (0.27 m³/s) Aug. 17, 22, 23.

Period of record: Maximum discharge, 6,300 ft³/s (178 m³/s) Aug. 19, 1955 (gage height, 11.78 ft or 3.591 m), from rating curve extended above 3,700 ft³/s (105 m³/s) on basis of computation of peak flow over dam; minimum, 2.2 ft³/s (0.062 m³/s) Oct. 1, 1950; minimum daily, 4.2 ft³/s (0.12 m³/s) Aug. 21, 23, 24, 1957.

REMARKS.--Records good. Flow regulated by mill above station prior to 1956.

REVISIONS (WATER YEARS).--WSP 921: 1940. WSP 1231: 1940-42(M), 1944-45(M), 1948(M), 1949.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	50	40	183	186	116	178	254	191	38	18	30
2	18	47	33	172	127	118	195	125	131	32	16	36
3	22	36	30	143	141	104	208	108	87	96	14	102
4	22	30	30	134	143	136	208	143	73	74	27	341
5	21	27	56	112	125	195	215	104	63	180	80	87
6	20	25	180	115	125	178	254	94	56	317	31	49
7	17	24	78	106	120	156	172	114	50	97	21	77
8	17	23	53	87	110	151	146	95	46	61	19	66
9	16	22	143	82	100	120	156	85	43	47	17	45
10	16	21	239	105	97	116	151	189	40	38	15	37
11	15	20	102	110	90	104	156	178	36	32	14	35
12	14	20	75	100	87	97	228	153	34	29	14	28
13	14	28	62	94	82	84	228	709	34	26	13	32
14	15	36	153	93	90	84	180	239	31	24	12	59
15	13	35	134	92	82	81	325	180	29	35	11	38
16	13	30	85	85	80	146	232	150	30	31	11	29
17	13	22	108	80	73	771	178	159	128	25	11	25
18	13	20	90	78	70	246	153	131	71	23	15	26
19	14	19	75	92	70	180	138	109	46	22	13	24
20	14	19	72	82	153	158	125	97	42	20	12	24
21	14	18	1,670	84	129	364	116	90	41	18	11	30
22	14	21	709	201	208	424	110	86	53	18	10	42
23	14	22	284	161	470	243	127	97	38	17	20	29
24	14	21	192	151	189	273	131	107	35	17	31	24
25	14	38	158	116	146	205	118	151	42	17	19	22
26	14	50	175	110	125	164	102	100	72	18	16	26
27	14	37	611	296	108	153	92	86	68	17	14	24
28	13	76	611	325	108	138	87	82	59	24	20	29
29	17	92	342	368	-------	118	84	80	50	31	22	183
30	225	52	261	235	-------	123	82	80	48	24	71	103
31	92	-------	198	195	-------	151	-------	69	-------	21	58	-------
TOTAL	770	989	7,049	4,387	3,634	5,697	4,875	4,444	1,767	1,469	676	1,702
MEAN	24.8	33.0	227	142	130	184	163	143	58.9	47.4	21.8	56.7
MAX	225	92	1,670	368	470	771	325	709	191	317	80	341
MIN	13	18	30	78	70	81	82	69	29	17	10	22
CFSM	.46	.61	4.20	2.63	2.41	3.41	3.02	2.65	1.09	.88	.40	1.05
IN.	.53	.68	4.86	3.02	2.50	3.92	3.36	3.06	1.22	1.01	.47	1.17

CAL YR 1973 TOTAL 52,511 MEAN 144 MAX 1,670 MIN 13 CFSM 2.67 IN 36.17
WTR YR 1974 TOTAL 37,459 MEAN 103 MAX 1,670 MIN 10 CFSM 1.91 IN 25.81

PEAK DISCHARGE (BASE, 1,250 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-21	1815	8.90	3,580				
3-17	0230	5.20	1,420				
5-13	0345	5.16	1,390				

01171800 BASSETT BROOK NEAR NORTHAMPTON, MASS.

LOCATION.--Lat 42°18'09", long 72°41'16", Hampshire County, on right bank 20 ft (6 m) upstream from bridge on State Highway 66 and 3 mi (5 km) southwest of Northampton.

DRAINAGE AREA.--5.56 mi² (14.40 km²).

PERIOD OF RECORD.--November 1962 to September 1974 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 210 ft (64 m) from topographic map.

AVERAGE DISCHARGE.--11 years (1963-74), 7.89 ft³/s (0.223 m³/s), 19.27 in/yr (489 mm/yr).

EXTREMES.--Current year: Maximum discharge, 102 ft³/s (2.89 m³/s) Dec. 21 (gage height, 6.82 ft or 2.079 m), from rating curve extended above 35 ft³/s (0.99 m³/s); minimum, 1.0 ft³/s (0.028 m³/s) Aug. 15.

Period of record: Maximum discharge, 102 ft³/s (2.89 m³/s) Dec. 21, 1973 (gage height, 6.82 ft or 2.079 m), from rating curve extended above 35 ft³/s (0.99 m³/s); minimum, 0.16 ft³/s (0.005 m³/s) Sept. 2, 1963.

REMARKS.--Records good except those for winter period and period of no gage-height record, which are fair. Recording rain gage at station since April 1963 (no winter records).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.8	7.5	5.0	18	19	14	21	19	21	4.4	1.8	2.3
2	1.7	4.8	4.0	17	17	14	20	11	13	3.4	1.7	2.8
3	2.1	4.2	3.5	15	14	14	21	10	8.7	7.6	1.6	8.2
4	1.7	4.1	3.4	14	14	14	20	12	7.5	6.4	3.5	18
5	1.8	3.4	7.0	13	13	15	23	9.1	7.0	11	3.0	6.9
6	1.7	3.1	12	12	13	15	22	8.2	6.6	15	2.5	4.1
7	1.7	3.0	7.3	12	12	14	18	9.6	6.0	6.4	2.2	6.9
8	1.7	2.8	5.4	11	11	13	16	8.4	5.8	4.4	2.0	5.8
9	1.7	2.8	15	10	10	12	20	7.9	5.7	3.5	1.9	4.1
10	1.7	2.7	20	11	9.5	12	18	19	5.1	3.1	1.8	2.9
11	1.6	2.6	11	12	9.1	12	20	17	4.7	3.0	1.7	2.6
12	1.7	2.6	8.7	11	8.8	11	22	21	4.2	2.7	1.6	2.6
13	1.7	2.6	7.3	10	8.5	11	17	43	4.4	2.4	1.5	3.7
14	1.7	2.6	13	10	8.2	11	15	19	4.2	2.3	1.5	4.9
15	1.7	2.4	13	10	8.0	10	20	15	4.5	4.1	1.4	4.4
16	1.7	2.7	9.3	9.4	7.9	18	15	13	4.9	2.7	1.4	3.4
17	1.7	2.9	13	8.8	7.8	49	13	14	10	2.3	2.3	2.8
18	1.7	2.6	10	8.4	7.7	19	12	12	6.9	2.1	2.1	4.7
19	1.7	2.4	8.5	9.5	7.6	15	12	10	5.1	2.0	1.7	2.9
20	1.7	2.3	7.8	9.0	14	13	12	9.3	5.4	1.9	1.5	3.4
21	1.7	2.4	67	11	12	27	11	9.0	5.1	1.8	1.5	5.8
22	1.8	3.1	49	20	22	39	10	9.1	5.4	1.7	1.4	6.0
23	1.7	2.9	25	17	39	23	10	9.1	4.9	1.6	2.9	4.0
24	1.7	3.2	19	16	24	22	9.9	11	4.2	1.6	1.9	3.4
25	1.7	6.4	16	14	17	19	9.3	11	5.5	1.6	1.6	3.4
26	1.6	4.4	17	13	16	16	8.8	9.8	7.0	1.6	1.5	3.5
27	1.7	3.6	36	28	14	16	8.4	9.0	6.1	1.6	1.7	3.1
28	1.6	13	42	30	14	14	8.4	8.1	5.5	3.0	2.2	6.3
29	2.7	10	28	31	------	13	8.1	8.4	5.1	2.7	2.2	24
30	21	7.0	23	24	------	14	8.2	8.2	4.5	2.3	5.4	11
31	11	------	19	21	------	20	------	7.6	------	2.0	3.0	------
TOTAL	82.7	120.1	525.2	456.1	378.1	529	449.1	387.8	194.0	112.2	64.0	167.9
MEAN	2.67	4.00	16.9	14.7	13.5	17.1	15.0	12.5	6.47	3.62	2.06	5.60
MAX	21	13	67	31	39	49	23	43	21	15	5.4	24
MIN	1.6	2.3	3.4	8.4	7.6	10	8.1	7.6	4.2	1.6	1.4	2.3
CFSM	.48	.72	3.04	2.64	2.43	3.08	2.70	2.25	1.16	.65	.37	1.01
IN.	.55	.80	3.51	3.05	2.53	3.54	3.00	2.59	1.30	.75	.43	1.12

CAL YR 1973 TOTAL 4,585.4 MEAN 12.6 MAX 70 MIN 1.5 CFSM 2.27 IN 30.68
WTR YR 1974 TOTAL 3,466.2 MEAN 9.50 MAX 67 MIN 1.4 CFSM 1.71 IN 23.19

PEAK DISCHARGE (BASE, 70 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-21	1430	6.82	102				

NOTE.-No gage-height record July 6 to Aug. 11.

01172500 WARE RIVER NEAR BARRE, MASS.

LOCATION.--Lat 42°25'35", long 72°01'30", Worcester County, on left bank 700 ft (200 m) downstream from Barre Falls Reservoir, 1.6 mi (2.6 km) upstream from Burnshirt River, 4 mi (6 km) east of Barre, and at mile 33.3 (kilometre 53.6).

DRAINAGE AREA.--55.0 mi² (142.4 km²).

PERIOD OF RECORD.--July 1946 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 745 ft (227 m) from topographic map.

AVERAGE DISCHARGE.--28 years, 89.6 ft³/s (2.537 m³/s), 22.12 in/yr (562 mm/yr), adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 682 ft³/s (19.3 m³/s) Dec. 26 (gage height, 4.87 ft or 1.484 m); minimum, 4.1 ft³/s (0.12 m³/s) Aug. 22, 23; minimum daily, 4.3 ft³/s (0.12 m³/s) Aug. 22.

Period of record: Maximum discharge, 1,890 ft³/s (53.5 m³/s) Oct. 16, 1955 (gage height, 6.31 ft or 1.923 m), from rating curve extended above 1,100 ft³/s (31.2 m³/s); minimum, 0.5 ft³/s (0.014 m³/s) Sept. 11, 12, 1963; minimum daily, 0.5 ft³/s (0.014 m³/s) Sept. 11, 1963. Maximum discharge since construction of Barre Falls Reservoir in 1958, 1,050 ft³/s (29.7 m³/s) Apr. 8, 1963 (gage height, 5.41 ft or 1.649 m).

REMARKS.--Records excellent. Prior to August 1955, slight regulation at low flow at times by Long Pond. Flow regulated by Barre Falls Reservoir (see p. 214) since 1958. Diversion at times since 1955 from 6.5 mi² (16.8 km²) above station for municipal supply of Fitchburg.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.2	132	82	246	263	121	186	129	106	26	7.8	9.5
2	8.4	106	63	220	198	126	189	147	169	25	7.2	7.8
3	8.8	76	52	188	137	116	189	127	143	39	7.2	11
4	9.3	55	47	168	130	112	189	120	110	52	7.2	67
5	9.4	42	53	149	134	125	198	110	89	50	6.9	67
6	9.7	36	117	150	134	142	223	95	75	93	6.4	37
7	8.8	31	134	135	133	132	214	90	64	74	6.1	37
8	8.2	28	106	110	134	126	181	90	55	51	7.1	40
9	8.0	25	100	82	133	112	167	82	50	37	6.0	29
10	7.7	22	170	65	132	106	159	98	45	29	5.8	22
11	7.6	20	182	65	129	104	149	159	41	23	5.2	18
12	7.4	31	143	75	125	79	159	159	37	18	4.8	15
13	7.7	24	109	92	90	69	167	246	35	15	4.7	14
14	7.9	21	111	95	90	70	167	278	32	14	4.4	40
15	7.5	20	145	91	96	70	205	217	29	13	6.9	36
16	7.2	23	136	100	83	71	230	172	32	12	7.1	26
17	6.9	23	148	105	74	75	195	157	80	13	6.2	19
18	6.9	22	206	105	75	258	161	158	94	11	6.7	16
19	7.6	21	180	102	74	396	149	137	73	11	6.1	14
20	8.0	19	160	102	76	279	142	117	57	11	5.2	13
21	8.4	17	233	102	111	183	133	104	50	9.7	5.4	23
22	8.3	22	219	102	138	337	127	91	57	8.9	4.3	75
23	8.3	25	403	104	212	331	120	90	61	8.8	4.9	60
24	8.2	24	508	118	262	264	127	101	54	8.1	7.2	40
25	8.0	29	489	144	226	243	131	118	44	7.9	6.4	30
26	7.7	37	591	157	205	215	124	114	42	7.7	5.6	25
27	7.6	37	619	156	144	189	110	116	40	7.8	5.3	21
28	7.4	60	571	229	110	165	105	98	37	7.9	5.7	19
29	7.8	107	430	399	------	144	99	89	34	8.2	6.6	145
30	74	105	341	430	------	137	92	93	32	8.5	11	255
31	149	------	286	340	------	154	------	85	------	8.7	12	------
TOTAL	456.9	1,242	7,134	4,726	3,848	5,051	4,787	3,967	1,867	710.2	199.4	1,231.3
MEAN	14.7	41.4	230	152	137	163	160	129	62.2	22.9	6.43	41.0
MAX	149	132	619	430	263	396	230	278	169	93	12	255
MIN	6.9	17	47	65	74	69	92	82	29	7.7	4.3	7.8
MEAN†	15.2	41.3	231	164	131	157	159	129	61.9	22.6	6.51	53.2
CFSM†	.28	.75	4.20	2.98	2.38	2.85	2.89	2.35	1.13	.41	.12	.97
IN.†	.32	.84	4.84	3.45	2.48	3.29	3.23	2.70	1.26	.47	.14	1.08

CAL YR 1973 TOTAL 46,256.6 MEAN 127 MAX 634 MIN 6.9 MEAN† 126 CFSM† 2.29 IN† 31.16
WTR YR 1974 TOTAL 35,239.8 MEAN 96.5 MAX 619 MIN 4.3 MEAN† 97.6 CFSM† 1.77 IN† 24.08

† Adjusted for change in contents in Barre Falls Reservoir.

01173000 WARE RIVER AT COLDBROOK, MASS.

LOCATION.--Lat 42°23'26", long 72°03'39", Worcester County, on right bank above diversion dam at Ware River intake works at Coldbrook, 2 mi (3 km) east of South Barre, 2.7 mi (4.3 km) downstream from Burnshirt River, and at mile 29.1 (kilometre 46.8).

DRAINAGE AREA.--96.8 mi² (250.7 km²).

PERIOD OF RECORD.--January 1928 to current year.

GAGE.--Venturi meters and water-stage recorder. Datum of gage is 5.65 ft (1.722 m) below mean sea level. Prior to Feb. 1, 1936, water-stage recorder at site 0.2 mi (0.3 km) downstream at datum 631.91 ft (192.606 m) above mean sea level, unadjusted.

AVERAGE DISCHARGE.--46 years, 163 ft³/s (4.616 m³/s), 22.87 in/yr (581 mm/yr), adjusted for storage.

EXTREMES.--Current year: Maximum daily discharge, 1,150 ft³/s (32.6 m³/s) Dec. 21; minimum daily, 10 ft³/s (0.28 m³/s) Aug. 22.
Period of record: Maximum discharge, 14,000 ft³/s (396 m³/s) Sept. 21, 1938 (gage height, 664.28 ft or 202.473 m), by computation of flow over dam; minimum daily, 1.1 ft³/s (0.031 m³/s) Sept. 19, 1965 (caused by unusual regulation). Maximum daily discharge since construction of Barre Falls Reservoir in 1958, 1,470 ft³/s (41.6 m³/s) Apr. 1, 1962.

REMARKS.--Records good. Figures of discharge include diversion as needed for Boston metropolitan district during period Oct. 15 to June 14 of each year and at other times for emergency flood-control purposes as authorized by Corps of Engineers, U. S. Army; diversion began in March 1931. Flow regulated by Barre Falls Reservoir 4.3 mi (6.9 km) upstream (see p. 214) since 1958. Diversion at times since 1955 from 6.5 mi² (16.8 km²) above station for municipal supply of Fitchburg.

COOPERATION.--Computations of daily discharge made in cooperation with Water Division, Metropolitan District Commission, which collected gage-height and venturi-meter records.

REVISIONS (WATER YEARS).--WSP 781: Drainage area. WSP 1031: 1944.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	193	135	405	442	219	348	277	257	47	19	21
2	21	144	121	354	272	213	443	231	316	48	19	18
3	22	129	90	314	263	196	364	205	228	86	18	46
4	23	98	82	261	255	213	340	199	165	80	17	75
5	23	79	103	227	234	244	365	158	137	101	17	96
6	23	66	226	248	235	245	384	140	135	134	16	60
7	22	60	207	211	233	224	335	170	122	101	15	74
8	21	35	139	169	230	210	292	149	107	79	15	65
9	20	21	186	135	217	193	284	134	95	61	15	124
10	19	34	240	144	211	182	265	265	88	47	14	64
11	18	31	253	134	205	168	273	304	63	40	13	38
12	18	49	173	139	197	144	308	284	76	35	12	32
13	18	43	134	141	153	133	311	502	67	30	12	32
14	19	41	185	147	163	133	306	451	60	26	12	79
15	17	40	217	164	157	132	428	347	55	25	12	65
16	17	45	222	166	139	174	396	269	87	25	13	47
17	17	44	326	159	135	412	318	281	149	25	13	38
18	18	40	302	159	133	514	269	245	124	24	14	33
19	19	40	302	191	145	564	250	210	108	22	13	29
20	19	38	271	176	192	389	222	170	88	20	12	29
21	20	36	1,150	194	229	491	212	150	88	20	11	47
22	20	44	902	239	308	671	199	150	106	25	10	100
23	19	47	842	237	481	562	196	153	102	28	12	86
24	20	45	751	260	450	477	216	185	82	63	14	64
25	19	58	688	274	354	425	213	190	71	51	13	50
26	19	69	860	286	315	372	189	191	68	30	13	42
27	19	68	989	426	225	335	155	172	66	20	13	38
28	18	133	931	550	200	295	147	164	61	20	13	48
29	23	214	696	734	------	259	155	149	58	20	17	364
30	225	136	559	667	------	252	158	147	51	20	29	455
31	229	------	460	529	------	329	------	139	------	20	29	------
TOTAL	1,026	2,121	12,791	8,438	6,774	9,365	8,221	6,761	3,274	1,373	465	2,359
MEAN	33.1	70.7	413	272	242	302	274	218	109	44.3	15.0	78.6
MAX	229	214	1,150	734	481	671	428	502	316	134	29	455
MIN	17	23	82	134	133	132	147	134	51	20	10	18
MEAN†	33.5	70.6	413	284	235	296	274	218	109	44.0	15.1	90.7
CFSM†	.35	.73	4.27	2.93	2.43	3.06	2.83	2.25	1.13	.45	.16	.94
IN.†	.40	.81	4.92	3.39	2.53	3.53	3.15	2.60	1.25	.52	.18	1.05

CAL YR 1973 TOTAL 83,598 MEAN 229 MAX 1,150 MIN 12 MEAN† 229 CFSM† 2.37 IN† 32.06
WTR YR 1974 TOTAL 62,968 MEAN 173 MAX 1,150 MIN 10 MEAN† 174 CFSM† 1.80 IN† 24.34

† Adjusted for change in contents in Barre Falls Reservoir.

01173260 MOOSE BROOK NEAR BARRE, MASS.

LOCATION.--Lat 42°23'52", long 72°08'51", Worcester County, on right bank 20 ft (6 m) upstream from culvert on Hardwick Road and 2.7 mi (4.3 km) southwest of Barre.

DRAINAGE AREA.--4.54 mi² (11.76 km²).

PERIOD OF RECORD.--Occasional low-flow measurements, water year 1960-62. October 1962 to September 1974 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 920 ft (280 m) from topographic map.

AVERAGE DISCHARGE.--11 years (1963-74) 6.80 ft³/s (0.193 m³/s), 20.34 in/yr (517 mm/yr).

EXTREMES.-Current year: Maximum discharge, 309 ft³/s (8.75 m³/s) Dec. 21 (gage height, 3.43 ft or 1.045 m), from rating curve extended above 79 ft³/s (2.24 m³/s); minimum, 0.07 ft³/s (0.002 m³/s) Aug. 17.

Period of record: Maximum discharge, 309 ft³/s (8.75 m³/s) Dec. 21, 1973 (gage height, 3.43 ft or 1.045 m), from rating curve extended above 79 ft³/s (2.24 m³/s); maximum gage height, 3.65 ft (1.113 m) Mar. 7, 1963 (backwater from ice); no flow at times during water years 1963-65, 1968, 1970.

REMARKS.-Records good. Recording rain gage at station since April 1963 (no winter records).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.36	7.1	5.8	14	16	8.9	11	10	10	1.1	.37	.51
2	.31	5.8	4.4	12	12	8.0	11	10	18	1.5	.31	.31
3	.41	4.3	3.7	10	10	7.4	11	8.3	12	4.5	.22	1.7
4	.44	3.4	3.4	9.1	9.7	8.1	12	8.9	8.1	4.9	.22	8.8
5	.47	2.8	4.8	7.8	8.6	10	13	7.6	6.0	3.8	.26	4.8
6	.43	2.3	21	7.4	8.2	9.9	15	6.4	4.7	5.8	.26	2.5
7	.44	2.1	14	6.9	8.1	8.8	13	6.0	3.4	3.6	.22	2.9
8	.44	2.0	8.7	6.3	8.0	7.9	11	6.2	2.7	2.5	.19	3.0
9	.35	2.0	8.0	5.7	7.5	6.7	10	5.6	2.2	2.1	.16	1.8
10	.31	1.9	13	6.1	7.4	6.2	9.7	8.6	2.1	1.6	.14	1.4
11	.31	1.8	11	6.6	7.4	5.5	9.1	16	1.8	1.3	.12	1.2
12	.31	1.7	7.9	6.5	7.4	5.3	11	12	1.6	1.1	.12	.95
13	.35	1.6	6.3	6.2	7.3	5.0	10	29	1.6	.95	.08	1.1
14	.43	1.6	7.2	6.4	7.3	4.7	10	22	1.4	.86	.08	6.4
15	.44	1.6	9.0	6.6	6.1	4.6	16	15	1.3	.76	.08	4.4
16	.35	2.0	7.4	6.1	5.2	5.6	15	11	1.8	.76	.08	2.4
17	.36	2.0	14	5.6	4.9	46	12	10	7.6	.59	.10	1.6
18	.40	1.9	22	5.4	4.6	34	9.4	9.4	6.2	.51	.16	1.3
19	.51	1.8	12	7.7	4.4	22	8.3	7.4	3.6	.44	.14	1.2
20	.60	1.8	8.6	8.3	11	16	7.8	5.8	2.5	.44	.12	1.2
21	.61	1.8	128	7.0	10	25	7.1	4.9	2.2	.44	.10	2.3
22	.69	2.5	117	13	14	54	6.7	4.1	2.9	.37	.10	7.4
23	.77	2.5	47	13	40	35	6.8	4.7	2.4	.31	.12	4.6
24	.67	2.0	27	14	26	26	7.7	6.7	1.8	.31	.14	2.9
25	.77	2.6	17	12	16	22	7.8	8.1	1.6	.26	.12	2.1
26	.70	3.8	17	10	12	16	7.1	7.1	1.5	.22	.12	1.8
27	.58	3.7	36	25	10	13	6.3	7.1	1.5	.22	.19	1.6
28	.60	7.7	36	40	8.5	11	5.7	6.2	1.6	.19	.26	1.9
29	.71	12	28	37	------	8.8	5.3	5.6	1.6	.19	.26	28
30	7.9	7.9	23	28	------	7.6	5.2	5.8	1.1	.31	.95	30
31	9.6	------	17	21	------	9.1	------	5.1	------	.51	1.1	------
TOTAL	31.62	98.0	685.2	370.7	297.6	458.1	291.0	280.6	116.8	42.44	6.89	132.07
MEAN	1.02	3.27	22.1	12.0	10.6	14.8	9.70	9.05	3.89	1.37	.22	4.40
MAX	9.6	12	128	40	40	54	16	29	18	5.8	1.1	30
MIN	.31	1.6	3.4	5.4	4.4	4.6	5.2	4.1	1.1	.19	.08	.31
CFSM	.22	.72	4.87	2.64	2.33	3.26	2.14	1.99	.86	.30	.05	.97
IN.	.26	.80	5.61	3.04	2.44	3.75	2.38	2.30	.96	.35	.06	1.08

CAL YR 1973 TOTAL 3,741.80 MEAN 10.3 MAX 128 MIN .19 CFSM 2.27 IN 30.66
WTR YR 1974 TOTAL 2,811.02 MEAN 7.70 MAX 128 MIN .08 CFSM 1.70 IN 23.03

PEAK DISCHARGE (BASE, 60 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-21	1730	3.43	309				
3-22	0030	2.24	64				

01173500 WARE RIVER AT GIBBS CROSSING, MASS.

LOCATION.--Lat 42°14'07", long 72°16'45", Hampshire County, on right bank 0.5 mi (0.8 km) upstream from Gibbs Crossing, 1.8 mi (2.9 km) upstream from Beaver Brook, 2.5 mi (4.0 km) southwest of Ware, and 8.8 mi (14.2 km) upstream from mouth.

DRAINAGE AREA.--199 mi² (515 km²).

PERIOD OF RECORD.--August 1912 to current year.

GAGE.--Water-stage recorder. Datum of gage is 379.79 ft (115.760 m) above mean sea level. Prior to Mar. 1, 1930, at site 0.5 mi (0.8 km) downstream at different datum.

AVERAGE DISCHARGE.--62 years, 317 ft³/s (8.977 m³/s), 21.63 in/yr (549 mm/yr), adjusted for storage and for diversion to Boston metropolitan district.

EXTREMES.--Current year: Maximum discharge, 3,390 ft³/s (96.0 m³/s) Dec. 22 (gage height, 6.39 ft or 1.948 m); minimum, 42 ft³/s (1.19 m³/s) Oct. 29; minimum daily, 44 ft³/s (1.25 m³/s) Oct. 2, 20, 22-24, 29.
Period of record: Maximum discharge, 22,700 ft³/s (643 m³/s) Sept. 21, 1938 (gage height, 18.2 ft or 5.55 m, from floodmarks), from rating curve extended above 4,600 ft³/s (130 m³/s) on basis of contracted-opening measurement at gage height 12.83 ft (3.911 m) and slope-area measurement at gage height 18.2 ft (5.55 m); minimum, 5.0 ft³/s (0.14 m³/s) Oct. 26, 1914; minimum daily, 6.0 ft³/s (0.17 m³/s) Oct. 4, 1914. Maximum discharge since construction of Barre Falls Reservoir in 1958, 4,000 ft³/s (113 m³/s) Mar. 31, 1960 (gage height, 7.03 ft or 2.143 m).

REMARKS.--Records good. Diversion at times: since March 1931 from 97 mi² (251 km²) for supply of Boston metropolitan district (see table below for figures of diversion) and since 1955 from 6.5 mi² (16.8 km²) for municipal supply of Fitchburg. Regulation by Barre Falls Reservoir (see p. 214) since 1958. Flow regulated by mills above station prior to 1967.

REVISIONS (WATER YEARS).--WSP 661: Drainage area. WSP 1301: 1944. WSP 1301: 1914(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	47	239	215	379	423	326	436	436	379	106	56	72
2	44	219	196	357	335	317	410	379	463	98	55	72
3	47	188	167	322	300	308	423	313	341	147	56	93
4	49	174	139	313	300	313	403	341	286	197	55	335
5	52	158	151	278	290	335	436	317	263	416	55	197
6	51	136	369	280	280	331	511	295	248	519	53	167
7	51	118	322	280	305	313	423	341	223	304	52	152
8	47	78	252	255	280	299	379	326	203	206	52	172
9	47	64	252	250	275	290	390	295	187	158	50	142
10	46	63	345	260	265	290	374	397	172	129	49	164
11	47	63	282	271	275	274	368	551	158	106	50	120
12	46	74	243	260	270	271	449	416	145	93	49	91
13	46	85	215	235	265	255	403	792	139	83	47	127
14	48	87	239	225	290	251	374	599	111	77	46	299
15	47	87	273	250	270	251	575	449	122	81	46	210
16	47	89	243	259	250	274	503	374	120	74	46	150
17	71	[illegible]	320	245	255	977	385	368	220	70	46	120
18	49	[illegible]	370	220	250	703	363	352	248	68	49	111
19	46	87	275	235	245	463	363	317	216	70	49	104
20	44	81	252	280	363	390	331	290	190	72	47	100
21	46	80	1,380	282	390	647	304	278	170	64	46	142
22	44	87	2,270	385	416	1,240	304	271	178	60	47	326
23	44	97	784	397	852	743	313	278	184	58	55	237
24	44	95	503	416	540	591	331	295	175	58	63	184
25	46	110	360	357	410	511	326	326	150	83	55	147
26	64	136	385	320	346	416	308	304	132	81	53	132
27	66	188	711	655	304	379	295	299	139	70	52	120
28	47	174	727	905	304	352	286	286	132	56	58	115
29	44	211	607	792	------	322	282	278	122	55	61	977
30	139	235	503	615	------	335	278	282	113	56	87	1,540
31	287	------	423	487	------	416	------	267	------	60	85	------
TOTAL	1,843	3,687	13,773	11,065	9,348	13,183	11,326	11,112	5,929	3,775	1,670	6,918
MEAN	59.5	123	444	357	334	425	378	358	198	122	53.9	231
MAX	287	239	2,270	905	852	1,240	575	792	463	519	87	1,540
MIN	44	63	139	220	245	251	278	267	111	55	46	72
(†)	+5.99	+4.95	+284	+139	+109	+168	+140	+82.8	+14.2	0	0	0
MEAN‡	65.9	128	729	508	436	588	518	441	212	122	53.9	243
CFSM‡	.33	.64	3.66	2.55	2.19	2.95	2.60	2.22	1.07	.61	.27	1.22
IN.‡	.38	.72	4.22	2.94	2.28	3.41	2.90	2.56	1.19	.70	.31	1.36

CAL YR 1973 TOTAL 108,987 MEAN 299 MAX 2,270 MIN 44 MEAN‡ 422 CFSM‡ 2.12 IN‡ 28.80
WTR YR 1974 TOTAL 93,629 MEAN 257 MAX 2,270 MIN 44 MEAN‡ 337 CFSM‡ 1.69 IN‡ 22.98

† Diversion, in cubic feet per second, from 97 mi² for supply of Boston metropolitan district; records furnished by Metropolitan District Commission.

‡ Adjusted for diversion to Boston metropolitan district and for change in contents in Barre Falls Reservoir.

01174000 HOP BROOK NEAR NEW SALEM, MASS.

LOCATION.--Lat 42°28'42", long 72°20'05", Franklin County, on right bank 1.5 mi (2.4 km) upstream from mouth and 1.5 mi (2.4 km) south of New Salem.

DRAINAGE AREA.--3.39 mi² (8.78 km²).

PERIOD OF RECORD.--October 1947 to current year. Monthly discharge only October 1947, published in WSP 1301.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 725 ft (221 m) from topographic map.

AVERAGE DISCHARGE.--27 years, 5.90 ft³/s (0.167 m³/s), 23.63 in/yr (600 mm/yr).

EXTREMES.--Current year: Maximum discharge, 249 ft³/s (7.05 m³/s) Dec. 21 (gage height, 2.97 ft or 0.905 m), from rating curve extended above 130 ft³/s (3.68 m³/s); minimum, 0.01 ft³/s (<0.001 m³/s) Aug. 22, 23.

Period of record: Maximum discharge, 289 ft³/s (8.18 m³/s) Oct. 24, 1959 (gage height, 3.17 ft or 0.966 m), from rating curve extended above 130 ft³/s (3.68 m³/s); maximum gage height, 3.21 ft (0.978 m) Feb. 2, 1973 (ice jam); minimum discharge, 0.004 ft³/s (<0.001 m³/s) Aug. 3, 9, 10, 1955.

REMARKS.--Records good except those for winter period and period of no gage-height record, which are fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.21	2.5	1.7	12	12	9.8	12	18	20	1.4	.20	.61
2	.23	1.7	1.5	11	9.4	9.1	12	6.8	10	1.5	.13	.61
3	.63	1.3	1.3	9.5	10	8.5	12	11	6.0	8.8	.13	6.0
4	.48	1.0	1.4	9.1	8.4	11	12	7.3	4.7	3.2	1.8	13
5	.45	.94	6.3	7.6	7.6	11	13	5.1	3.8	12	2.4	1.9
6	.45	.89	12	8.2	7.6	8.8	12	5.8	3.2	8.2	.72	1.0
7	.33	.80	3.3	7.3	7.0	8.2	9.5	8.8	2.7	3.2	.47	3.3
8	.30	.76	2.3	5.3	6.7	7.3	8.5	5.8	2.5	2.0	.39	1.8
9	.28	.76	7.6	5.3	6.5	6.8	9.1	5.1	2.3	1.5	.24	1.0
10	.28	.68	7.9	7.6	5.8	7.9	8.5	17	2.0	1.3	.22	.76
11	.33	.64	3.8	7.6	5.8	6.8	12	12	1.7	1.0	.13	.64
12	.36	.72	2.8	6.3	5.3	6.3	12	16	1.5	.89	.09	.54
13	.30	.76	2.3	5.8	5.8	5.9	10	33	1.3	.76	.07	1.8
14	.33	.76	12	5.8	5.8	5.5	9.1	13	1.2	.64	.06	7.1
15	.30	.72	6.0	6.0	4.7	5.3	23	11	1.2	.72	.04	1.8
16	.30	1.3	3.8	5.3	4.5	16	14	9.0	1.4	.61	.03	1.2
17	.36	.99	5.6	4.2	4.9	51	8.8	9.5	11	.50	.04	.89
18	.36	.85	4.2	4.6	4.4	17	8.2	7.6	3.2	.44	.10	.94
19	.52	.85	2.9	5.6	4.7	14	7.6	6.2	2.2	.61	.09	.80
20	.48	.76	4.2	4.6	16	12	7.9	5.3	2.2	.50	.04	.94
21	.48	.68	106	13	9.1	33	8.5	4.9	3.6	.36	.02	3.6
22	.45	.99	32	24	26	26	7.9	4.9	3.5	.29	.02	3.9
23	.47	.89	17	9.8	32	18	9.5	5.4	2.1	.26	.20	1.4
24	.33	.80	12	9.1	14	21	11	6.0	1.8	.29	.36	.99
25	.31	2.3	10	7.1	12	17	9.5	6.8	4.1	.39	.13	.89
26	.36	2.3	15	6.8	11	13	10	5.0	3.3	.31	.07	1.0
27	.36	1.5	35	26	9.1	12	6.3	4.7	2.5	.41	.07	.85
28	.33	6.0	32	19	9.1	11	5.6	4.2	2.1	.57	.26	1.6
29	.54	6.0	18	22	------	9.8	4.6	4.4	1.9	.47	.50	19
30	11	2.3	16	15	------	9.5	4.9	4.4	1.6	.41	3.1	4.9
31	4.4	------	13	13	------	13	------	3.9	------	.44	1.4	------
TOTAL	26.31	43.44	398.9	303.5	265.2	411.5	299.0	267.9	110.6	53.97	13.52	84.76
MEAN	.85	1.45	12.9	9.79	9.47	13.3	9.97	8.64	3.69	1.74	.44	2.83
MAX	11	6.0	106	26	32	51	23	33	20	12	3.1	19
MIN	.21	.64	1.3	4.2	4.4	5.3	4.6	3.9	1.2	.26	.02	.54
CFSM	.25	.43	3.81	2.89	2.79	3.92	2.94	2.55	1.09	.51	.13	.83
IN.	.29	.48	4.38	3.33	2.91	4.52	3.28	2.94	1.21	.59	.15	.93

CAL YR 1973 TOTAL 3,300.79 MEAN 9.04 MAX 106 MIN .08 CFSM 2.67 IN 36.22
WTR YR 1974 TOTAL 2,278.60 MEAN 6.24 MAX 106 MIN .02 CFSM 1.84 IN 25.00

PEAK DISCHARGE (BASE, 100 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-21	1130	2.97	249				
3-17	0345	2.36	106				

NOTE.--No gage-height record May 14 to June 17.

01174500 EAST BRANCH SWIFT RIVER NEAR HARDWICK, MASS.

LOCATION.--Lat 42°23'36", long 72°14'21", Worcester County, on left bank 100 ft (30 m) above spillway of regulating dam and 4.6 mi (7.4 km) northwest of Hardwick.

DRAINAGE AREA.--43.7 mi² (113.2 km²).

PERIOD OF RECORD.--January 1937 to current year. Published as "near Dana" January 1937 to September 1939.

GAGE.--Water-stage recorder. Concrete spillway since Mar. 12, 1940. Datum of gage is 504.70 ft (153.833 m) above mean sea level.

AVERAGE DISCHARGE.--37 years, 67.3 ft³/s (1.906 m³/s), 20.91 in/yr (531 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,120 ft³/s (31.7 m³/s) Dec. 22 (gage height, 21.27 ft or 6.483 m); minimum, 0.55 ft³/s (0.016 m³/s) Aug. 22, 23.

Period of record: Maximum discharge, 6,780 ft³/s (192 m³/s) Sept. 21, 1938, average of slope-area and contracted-opening measurements; maximum gage height since construction of concrete spillway in 1940, 22.49 ft (6.855 m) June 25, 1944; no flow at times during several years.

REMARKS.--Records good.

DISCHARGE. IN CUBIC FEET PER SECOND. WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.7	53	49	137	157	84	114	101	104	20	7.2	12
2	5.5	44	38	120	134	83	116	108	185	20	6.5	11
3	6.5	34	31	104	111	79	126	92	138	30	6.0	15
4	7.0	27	28	96	102	80	127	88	97	41	6.0	47
5	6.9	22	30	83	88	94	136	75	72	40	7.1	44
6	6.6	19	75	75	77	98	158	68	59	58	6.4	30
7	6.3	17	87	73	82	91	138	70	46	55	5.9	29
8	6.0	15	70	64	78	83	115	67	39	41	5.5	26
9	5.6	14	64	58	75	75	111	58	36	30	5.2	22
10	5.7	13	80	60	71	73	99	84	34	24	4.3	19
11	5.3	12	77	70	68	64	90	145	29	20	3.5	15
12	5.0	11	62	66	64	61	108	132	24	16	3.0	13
13	4.8	11	49	57	62	55	116	239	23	13	2.6	13
14	5.0	11	51	50	64	50	109	223	21	12	2.3	28
15	7.6	12	64	49	63	47	159	152	19	12	1.9	28
16	9.9	14	61	54	57	57	181	119	19	11	1.2	23
17	9.4	13	88	54	55	311	144	105	27	11	.90	18
18	8.3	13	114	45	53	333	115	98	37	9.1	1.3	16
19	8.2	14	86	54	51	209	97	80	34	8.5	1.1	13
20	7.7	13	65	59	82	153	84	65	28	8.9	.84	12
21	7.7	13	388	59	107	176	76	55	28	7.4	.70	21
22	7.1	15	865	88	119	391	72	52	36	6.9	.69	49
23	6.8	15	386	110	310	301	76	59	37	6.0	1.4	45
24	6.8	15	216	113	260	232	92	71	33	5.6	3.0	31
25	7.0	19	139	104	174	201	91	81	29	5.4	2.9	24
26	6.6	23	122	90	128	164	82	83	25	5.0	2.3	21
27	6.4	25	244	123	101	139	71	78	25	5.4	1.5	18
28	5.9	38	330	282	89	121	61	69	25	5.5	4.0	17
29	6.9	59	267	294	------	104	57	65	23	5.8	7.0	100
30	23	58	204	246	------	100	56	65	20	6.8	13	178
31	49	------	165	188	------	103	------	59	------	7.7	15	------
TOTAL	266.2	662	4.595	3.125	2.882	4.212	3.177	2.906	1.352	548.0	130.23	938
MEAN	8.59	22.1	148	101	103	136	106	93.7	45.1	17.7	4.20	31.3
MAX	49	59	865	294	310	391	181	239	185	58	15	178
MIN	4.8	11	28	45	51	47	56	52	19	5.0	.69	11
CFSM	.20	.51	3.39	2.31	2.36	3.11	2.43	2.14	1.03	.41	.10	.72
IN.	.23	.56	3.91	2.66	2.45	3.59	2.70	2.47	1.15	.47	.11	.80

CAL YR 1973 TOTAL 33.360.50 MEAN 91.4 MAX 865 MIN 3.7 CFSM 2.09 IN 28.40
WTR YR 1974 TOTAL 24.793.43 MEAN 67.9 MAX 865 MIN .69 CFSM 1.55 IN 21.11

PEAK DISCHARGE (BASE, 350 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-22	0100	21.27	1,120				
2-23	1600	20.23	360				
3-17	2000	20.33	425				
3-22	0400	20.31	412				

01174600 CADWELL CREEK NEAR PELHAM, MASS.

LOCATION.--Lat 42°21'16", long 72°23'18", Hampshire County, on left bank 0.8 mi (1.3 km) east of Knights Corner, 2 mi (3 km) upstream from mouth, 2.7 mi (4.3 km) south of Pelham, and 5 mi (8 km) north of Belchertown.

DRAINAGE AREA.--0.63 mi² (1.63 km²).

PERIOD OF RECORD.--July 1961 to current year.

GAGE.--Water-stage recorder and concrete control with V-notch sharp-crested weir. Altitude of gage is 860 ft (262 m) from topographic map.

AVERAGE DISCHARGE.--13 years, 1.08 ft³/s (0.031 m³/s), 23.28 in/yr (591 mm/yr).

EXTREMES.--Current year: Maximum discharge, 37 ft³/s (1.05 m³/s) Dec. 21 (gage height, 5.08 ft or 1.548 m); no flow Aug. 2, 7-16, 19-22. Period of record: Maximum discharge, 37 ft³/s (1.05 m³/s) Dec. 21, 1973 (gage height, 5.08 ft or 1.548 m); maximum gage height, 5.09 ft or 1.551 m (backwater from ice) Feb. 2, 1973; no flow at times.

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.05	.56	.43	2.0	1.9	1.1	1.9	3.6	4.0	.14	.01	.08
2	.05	.36	.34	1.8	1.5	1.0	1.9	1.6	2.1	.13	0	.08
3	.11	.27	.30	1.6	1.4	1.0	1.8	1.5	1.2	1.5	.01	1.3
4	.08	.21	.30	1.5	1.2	1.2	2.0	1.7	.89	.46	.01	1.9
5	.07	.18	1.2	1.3	1.1	1.2	2.5	1.2	.67	1.3	.03	.35
6	.07	.17	2.8	1.2	1.0	1.0	2.6	1.0	.54	1.4	.01	.16
7	.05	.15	1.0	1.2	1.0	.96	1.6	1.6	.44	.48	0	.74
8	.06	.14	.70	1.0	.95	.87	1.3	1.1	.40	.24	0	.34
9	.05	.13	2.3	.96	.91	.81	1.3	.94	.35	.15	0	.18
10	.05	.12	2.3	1.0	.81	.85	1.2	3.6	.28	.10	0	.12
11	.06	.11	1.2	1.1	.80	.73	2.2	2.6	.23	.07	0	.08
12	.06	.12	.83	1.0	.75	.68	2.5	3.7	.19	.05	0	.06
13	.07	.13	.66	.96	.91	.61	1.9	9.7	.22	.03	0	.30
14	.06	.13	1.9	.96	.93	.61	1.6	3.3	.15	.02	0	1.5
15	.05	.12	1.3	.96	.73	.59	6.1	2.2	.12	.26	0	.33
16	.05	.23	.89	.96	.66	2.5	2.6	1.7	.25	.06	0	.18
17	.06	.17	1.8	.93	.68	10	1.8	2.0	1.2	.03	.01	.12
18	.07	.18	1.2	.89	.63	3.2	1.4	1.4	.44	.02	.01	.19
19	.09	.18	.81	1.7	.90	2.1	1.3	1.1	.25	.04	0	.12
20	.07	.16	1.0	1.2	3.7	1.6	1.1	.96	.24	.04	0	.32
21	.07	.15	23	2.3	2.3	8.0	.99	.87	.35	.01	0	1.3
22	.06	.32	6.7	4.5	6.6	6.8	.94	.81	.37	.01	0	1.3
23	.06	.24	3.4	3.2	8.3	3.5	1.0	1.0	.23	.01	.08	.41
24	.05	.23	2.3	2.8	2.9	3.2	1.1	1.2	.18	.01	.06	.28
25	[illegible]	.60	1.8	2.1	1.9	2.3	.97	1.3	.20	.02	.01	.20
26	.06	.44	2.3	1.9	1.5	1.7	.86	.94	.32	.01	.01	.19
27	.06	.32	7.1	8.1	1.2	1.5	.77	.84	.41	.01	.01	.15
28	.05	1.6	5.9	6.0	1.1	1.3	.69	.76	.29	.02	.14	.31
29	.12	1.1	3.4	6.1	------	1.1	.68	.83	.23	.02	.08	9.8
30	2.0	.58	2.9	3.3	------	1.1	.88	.76	.18	.05	.71	3.0
31	.63	------	2.2	2.5	------	2.1	------	.64	------	.04	.20	------
TOTAL	4.50	9.40	84.24	67.02	48.26	65.21	49.48	56.45	16.92	6.73	1.39	25.39
MEAN	.15	.31	2.72	2.16	1.72	2.10	1.65	1.82	.56	.22	.045	.85
MAX	2.0	1.6	23	8.1	8.3	10	6.1	9.7	4.0	1.5	.71	9.8
MIN	.05	.11	.30	.89	.63	.59	.68	.64	.12	.01	0	.06
CFSM	.24	.49	4.32	3.43	2.73	3.33	2.62	2.89	.89	.35	.07	1.35
IN.	.27	.56	4.97	3.96	2.85	3.85	2.92	3.33	1.00	.40	.08	1.50

CAL YR 1973 TOTAL 618.63 MEAN 1.69 MAX 23 MIN .01 CFSM 2.68 IN 36.53
WTR YR 1974 TOTAL 434.99 MEAN 1.19 MAX 23 MIN 0 CFSM 1.89 IN 25.69

PEAK DISCHARGE (BASE, 18 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-21	1200	5.08	37				
3-17	0315	4.52	18				
3-21	1700	4.66	22				
5-12	2345	4.66	22				
9-29	0415	4.72	24				

01174900 CADWELL CREEK NEAR BELCHERTOWN, MASS.

LOCATION.--Lat 42°20'08", long 72°22'12", Hampshire County, on left bank 200 ft (60 m) upstream from mouth, 2 mi (3 km) southeast of Knights Corner, and 4.5 mi (7.2 km) north of Belchertown.

DRAINAGE AREA.--2.81 mi² (7.28 km²).

PERIOD OF RECORD.--July 1961 to current year.

GAGE.--Water-stage recorder and concrete control with V-notch sharp-crested weir. Altitude of gage is 540 ft (165 m) from topographic map.

AVERAGE DISCHARGE.--13 years, 4.45 ft³/s (0.126 m³/s), 21.51 in/yr (546 mm/yr).

EXTREMES.--Current year: Maximum discharge, 239 ft³/s (6.77 m³/s) Dec. 21 (gage height, 7.24 ft or 2.207 m), from rating curve extended above 92 ft³/s (2.61 m³/s); minimum, 0.09 ft³/s (0.003 m³/s) Aug. 22, 23.

Period of record: Maximum discharge, 239 ft³/s (6.77 m³/s) Dec. 21, 1973 (gage height, 7.24 ft or 2.207 m), from rating curve extended above 92 ft³/s (2.61 m³/s); minimum, 0.07 ft³/s (0.002 m³/s) several times in water years 1964, 1965, and 1966.

REMARKS.--Records good.

REVISIONS (WATER YEARS).--WRD Mass., N.H., R.I., Vt. 1967: 1966(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.48	2.4	2.1	7.3	8.9	5.3	7.6	15	16	1.0	.35	.69
2	.48	2.0	1.8	6.3	6.4	5.0	7.4	5.8	7.4	1.0	.27	.56
3	.78	1.5	1.6	5.5	6.6	4.7	7.3	5.4	4.8	5.5	.26	3.2
4	.63	1.2	1.6	5.2	6.1	5.6	7.7	6.3	3.8	2.6	.29	7.5
5	.58	1.1	4.0	4.4	5.2	5.9	9.8	4.7	3.1	5.2	.33	1.9
6	.55	1.0	10	4.5	5.1	5.0	10	4.2	2.7	6.7	.24	1.1
7	.49	.99	4.0	4.2	5.0	4.6	6.9	5.7	2.2	2.6	.23	2.6
8	.47	.96	2.9	3.4	4.5	4.2	5.8	4.4	2.0	1.7	.21	1.9
9	.45	.89	8.0	3.4	4.2	3.9	6.1	4.0	1.9	1.2	.18	1.1
10	.47	.83	8.0	4.0	3.9	4.0	5.3	16	1.7	.98	.18	.80
11	.52	.78	5.0	4.1	3.9	3.6	7.9	10	1.4	.80	.16	.66
12	.49	.81	3.5	3.7	3.6	3.5	10	16	1.2	.67	.15	.56
13	.45	.84	2.6	3.5	3.9	3.2	7.6	41	1.2	.57	.14	2.5
14	.53	.84	6.6	3.4	4.2	3.1	6.6	15	1.1	.54	.14	8.7
15	.51	.75	5.0	3.3	3.5	3.1	22	9.1	.95	1.0	.13	2.4
16	.46	1.0	3.4	3.3	3.3	9.4	9.6	7.0	1.1	.70	.12	1.4
17	.42	1.0	6.0	3.1	3.3	44	6.9	7.4	4.4	.55	.14	.99
18	.47	.87	4.6	2.9	3.2	16	5.9	6.0	2.2	.45	.21	1.0
19	.66	.87	3.2	5.3	3.4	9.1	5.5	4.9	1.5	.53	.16	.91
20	.63	.81	3.5	4.1	14	6.9	4.9	4.3	1.4	.60	.13	1.3
21	.61	.81	100	6.8	8.0	29	4.5	4.0	1.8	.40	.13	6.0
22	.60	1.3	32	16	23	32	4.3	3.9	2.3	.37	.11	6.2
23	.55	1.2	15	9.4	39	17	4.5	4.2	1.5	.33	.48	2.5
24	.52	1.1	8.9	8.7	14	15	4.7	4.7	1.3	.31	.65	1.7
25	.53	2.3	6.5	6.5	8.7	10	4.3	5.4	1.2	.37	.27	1.4
26	.53	2.1	7.9	5.8	6.7	8.0	3.8	4.0	1.5	.32	.21	1.2
27	.52	1.7	26	27	5.5	6.9	3.5	3.7	1.9	.28	.22	1.1
28	.48	5.6	23	23	5.1	6.1	3.3	3.4	1.7	.31	.51	1.2
29	.62	4.3	13	27	------	5.4	3.2	3.5	1.4	.34	.52	49
30	6.7	2.7	11	15	------	5.4	3.5	3.5	1.2	.45	2.5	21
31	3.0	------	8.0	11	------	8.2	------	3.1	------	.49	1.3	------
TOTAL	25.18	44.55	338.7	241.1	212.2	293.1	200.4	235.6	77.85	38.86	10.92	133.07
MEAN	.81	1.49	10.9	7.78	7.58	9.45	6.68	7.60	2.60	1.25	.35	4.44
MAX	6.7	5.6	100	27	39	44	22	41	16	6.7	2.5	49
MIN	.42	.75	1.6	2.9	3.2	3.1	3.2	3.1	.95	.28	.11	.56
CFSM	.29	.53	3.88	2.77	2.70	3.36	2.38	2.70	.93	.44	.12	1.58
IN.	.33	.59	4.48	3.19	2.81	3.88	2.65	3.12	1.03	.51	.14	1.76

CAL YR 1973 TOTAL 2,472.74 MEAN 6.77 MAX 100 MIN .30 CFSM 2.41 IN 32.74
WTR YR 1974 TOTAL 1,851.53 MEAN 5.07 MAX 100 MIN .11 CFSM 1.80 IN 24.51

PEAK DISCHARGE (BASE, 75 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-21	1430	7.24	239				
5-12	2400	6.55	95				
9-29	0515	6.62	105				

01175500 SWIFT RIVER AT WEST WARE, MASS.

LOCATION.--Lat 42°16'04", long 72°19'59", Hampshire County, on left bank at West Ware, 1.4 mi (2.3 km) downstream from Quabbin Reservoir, 3.5 mi (5.6 km) east of Belchertown, and 8.0 mi (12.9 km) upstream from mouth.

DRAINAGE AREA.--188 mi² (487 km²), includes 1.6 mi² (4.1 km²) drained by Beaver Brook, flow of which is diverted from Ware River basin. Prior to January 1937, 186 mi² (482 km²).

PERIOD OF RECORD.--July 1910 to September 1912 (twice-daily gage heights and corresponding discharges), October 1912 to current year.

GAGE.--Water-stage recorder. Datum of gage is 365.18 ft (111.307 m) above mean sea level. Prior to Aug. 25, 1912, nonrecording gage at site 400 ft (100 m) upstream at same datum.

AVERAGE DISCHARGE.--62 years (1912-74), 300 ft³/s (8.496 m³/s), 21.67 in/yr (550 mm/yr), adjusted for storage and diversions.

EXTREMES.--Current year: Maximum discharge, 166 ft³/s (4.70 m³/s) Dec. 21 (gage height, 2.97 ft or 0.905 m); maximum gage height, 3.10 ft (0.945 m) Feb. 6 (backwater from ice); minimum daily discharge, 26 ft³/s (0.74 m³/s) Nov. 11, 18, 22, Dec. 2, 16.
Period of record: Maximum discharge, 7,590 ft³/s (215 m³/s) Mar. 19, 1936 (gage height, 15.00 ft or 4.572 m); minimum daily, 9.1 ft³/s (0.26 m³/s) Dec. 15, 1968. Maximum discharge since construction of Quabbin Reservoir in 1939, 1,870 ft³/s (53.0 m³/s) Apr. 30, 1956 (gage height, 8.37 ft or 2.551 m).

REMARKS.--Records good. Flow regulated since August 1939 by Quabbin Reservoir (see p. 214). Diversion from Ware River to Quabbin Reservoir since 1940, from Quabbin Reservoir to Wachusett Reservoir since 1941, from Quabbin Reservoir to Chicopee Valley aqueduct since 1950, and at times during 1966 and 1967 from Quabbin Reservoir to city of Worcester.

REVISIONS (WATER YEARS).--WSP 401: Drainage area. WSP 451: 1916. WSP 871: 1919. WSP 1031: 1944 (changes in reservoir contents and adjusted figures only). WSP 1301: 1925(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	46	40	43	28	80	78	41	41	42	39	38	92
2	36	41	26	46	44	43	41	39	39	38	36	94
3	39	44	43	40	41	41	41	39	37	41	39	96
4	39	27	39	37	77	75	41	39	39	39	39	96
5	42	47	39	45	78	78	41	39	38	48	39	54
6	46	39	39	27	78	78	42	39	38	43	38	39
7	30	39	39	84	79	75	40	41	29	39	39	41
8	30	39	43	78	80	75	40	39	48	39	38	39
9	47	39	27	78	44	42	41	39	39	39	38	39
10	39	44	47	82	40	39	40	42	39	39	38	39
11	39	26	39	75	73	72	41	40	39	39	38	39
12	39	45	36	43	60	71	41	40	39	39	38	39
13	44	39	37	40	77	77	40	45	39	39	38	43
14	27	39	39	74	78	75	40	40	39	39	71	45
15	47	39	44	77	44	75	42	40	39	39	101	40
16	39	39	26	77	44	45	40	39	39	39	91	39
17	39	44	44	77	39	47	40	40	39	39	91	39
18	39	26	39	77	73	74	40	39	39	39	92	39
19	39	44	40	45	77	78	40	39	38	39	92	39
20	46	37	39	39	79	77	39	34	39	39	90	40
21	30	44	58	72	78	86	39	39	39	39	91	44
22	30	26	49	80	110	84	39	39	39	39	91	42
23	47	45	29	69	47	46	39	39	39	39	94	40
24	38	43	53	84	42	42	39	39	39	39	91	40
25	39	27	28	78	75	42	39	39	39	38	94	40
26	39	42	40	42	79	42	39	39	39	39	92	40
27	44	39	42	45	78	42	39	39	39	39	92	40
28	27	40	42	79	78	41	39	39	39	38	94	40
29	47	39	44	83	------	41	39	39	39	37	94	57
30	42	39	29	80	------	41	39	39	38	36	96	46
31	40	------	44	80	------	42	------	38	------	39	91	------
TOTAL	1.215	1.161	1.226	1.961	1.872	1.864	1.201	1.221	1.166	1.216	2.144	1.460
MEAN	39.2	38.7	39.5	63.3	66.9	60.1	40.0	39.4	38.9	39.2	69.2	48.7
MAX	47	47	58	84	110	86	42	45	48	48	101	96
MIN	27	26	26	27	39	39	39	34	29	36	36	39
MEAN †	44.1	68.9	724	473	447	617	473	508	181	90.5	36.0	318
CFSM †	.23	.37	3.85	2.52	2.38	3.28	2.52	2.70	.96	.48	.19	1.69
IN. †	.27	.41	4.44	2.90	2.48	3.78	2.81	3.12	1.07	.56	.22	1.89

CAL YR 1973 TOTAL 16.423 MEAN 45.0 MAX 98 MIN 22 MEAN† 406 CFSM† 2.16 IN† 29.33
WTR YR 1974 TOTAL 17.707 MEAN 48.5 MAX 110 MIN 26 MEAN† 331 CFSM† 1.76 IN† 23.94

† Adjusted for diversions and change in contents in Quabbin Reservoir.

01175670 SEVENMILE RIVER NEAR SPENCER, MASS.

LOCATION.--Lat 42°15'54", long 72°00'19", Worcester County, on right bank 40 ft (12 m) upstream from bridge on Cooney Road and 1.5 mi (2.4 km) north of Spencer.

DRAINAGE AREA.--8.58 mi² (22.22 km²).

PERIOD OF RECORD.--Occasional low-flow measurements, water year 1960. October 1960 to current year. October and November 1960 monthly discharge only, published in WSP 1901.

GAGE.--Water-stage recorder. Altitude of gage is 640 ft (195 m) from topographic map.

AVERAGE DISCHARGE.--14 years, 13.4 ft³/s (0.379 m³/s), 21.21 in/yr (539 mm/yr).

EXTREMES.--Current year: Maximum discharge, 223 ft³/s (6.32 m³/s) Dec. 21 (gage height, 4.46 ft or 1.359 m); minimum, 0.13 ft³/s (0.004 m³/s) Aug. 21.

Period of record: Maximum discharge, 412 ft³/s (11.7 m³/s) Mar. 18, 1968 (gage height, 5.19 ft or 1.582 m), from rating curve extended above 160 ft³/s (4.53 m³/s); maximum gage height, 5.41 ft (1.649 m) Mar. 7, 1963 (backwater from ice); minimum discharge, 0.13 ft³/s (0.004 m³/s) Aug. 21, 1974.

REMARKS.--Records fair. Occasional regulation by ponds above station since 1971.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.3	21	5.7	39	24	20	28	25	15	3.6	.82	1.5
2	3.1	15	5.5	36	17	20	26	22	18	4.1	.74	1.1
3	2.8	8.3	5.9	32	22	19	25	20	14	7.6	.80	2.4
4	2.6	5.2	6.2	30	19	19	24	21	11	7.9	1.3	13
5	2.6	3.6	6.4	27	18	21	23	18	9.6	9.3	1.2	6.4
6	2.3	2.8	16	24	17	19	24	17	7.6	23	.91	4.3
7	2.1	2.4	17	22	17	19	22	17	6.8	16	.78	6.2
8	1.9	2.1	17	20	16	17	20	17	6.2	11	.76	5.7
9	1.7	2.0	17	19	15	16	21	15	5.7	7.9	.65	3.7
10	1.6	1.8	21	21	14	15	21	22	4.3	5.7	.63	3.0
11	1.5	1.7	20	19	14	15	23	29	4.3	4.4	.58	2.5
12	1.4	1.6	18	17	13	14	27	24	3.7	3.1	.49	2.5
13	1.3	1.7	14	16	12	13	29	43	3.6	3.0	.41	3.2
14	1.2	1.7	19	16	12	12	29	35	4.0	2.4	.45	11
15	1.1	1.9	28	16	10	11	38	28	3.7	2.2	.45	6.4
16	1.0	1.9	24	15	10	13	34	24	6.4	1.9	.34	4.8
17	.94	1.9	34	14	11	41	28	23	15	2.0	.27	3.7
18	.90	1.9	42	16	11	35	24	22	11	1.7	.49	3.4
19	.90	1.9	29	20	12	27	26	18	7.9	1.4	.45	3.3
20	.96	1.8	28	20	27	23	26	16	7.0	1.3	.29	3.0
21	1.1	1.8	125	17	26	39	22	15	6.4	1.4	.20	4.9
22	1.1	2.2	149	25	30	65	21	14	6.8	1.1	.21	12
23	1.0	2.6	87	29	57	46	20	14	5.9	1.1	.78	7.0
24	1.0	2.3	62	30	37	38	20	15	5.1	.91	1.8	4.9
25	.98	2.8	48	27	31	33	19	18	4.6	.82	1.2	4.0
26	.92	2.8	46	23	26	28	17	15	4.5	.65	.70	3.6
27	.86	2.7	63	50	23	25	17	14	4.5	1.4	.55	3.3
28	1.2	3.4	64	60	21	23	15	12	4.6	1.3	.65	3.3
29	16	5.6	57	47	------	21	14	11	4.3	1.1	1.1	29
30	17	5.5	51	40	------	20	14	11	3.9	.96	2.6	52
31	25	------	44	30	------	27	------	10	------	1.0	2.5	------
TOTAL	101.36	114.1	1,169.7	817	562	754	697	605	215.4	131.24	25.10	215.1
MEAN	3.27	3.80	37.7	26.4	20.1	24.3	23.2	19.5	7.18	4.23	.81	7.17
MAX	25	21	149	60	57	65	38	43	18	23	2.6	52
MIN	.86	1.6	5.5	14	10	11	14	10	3.6	.65	.20	1.1
CFSM	.38	.44	4.39	3.08	2.34	2.83	2.70	2.27	.84	.49	.09	.84
IN.	.44	.49	5.07	3.54	2.44	3.27	3.02	2.62	.93	.57	.11	.93

CAL YR 1973 TOTAL 6,340.72 MEAN 17.4 MAX 182 MIN .69 CFSM 2.03 IN 27.49
WTR YR 1974 TOTAL 5,407.00 MEAN 14.8 MAX 149 MIN .20 CFSM 1.72 IN 23.44

PEAK DISCHARGE (BASE, 60 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-21	1900	4.46	223	3-21	2200	3.74	89
1-27	1945	3.60	81	9-30	0100	3.59	63
2-23	0615	3.51	71				

01176000 QUABOAG RIVER AT WEST BRIMFIELD, MASS.

LOCATION.--Lat 42°10'56", long 72°15'51", Hampden County, on right bank 10 ft (3 m) upstream from abandoned highway-bridge site at West Brimfield, 0.9 mi (1.4 km) upstream from Blodgett Mill Brook, 3.5 mi (5.6 km) northeast of Palmer, and 9.9 mi (15.9 km) upstream from mouth.

DRAINAGE AREA.--151 mi² (391 km²).

PERIOD OF RECORD.--August 1909 to August 1912 (twice-daily gage heights and corresponding discharges), September 1912 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 390 ft (119 m) from topographic map. Prior to Aug. 19, 1912, nonrecording gage, and Aug. 19, 1912, to Oct. 31, 1955, water-stage recorder, at several sites 0.5 mi (0.8 km) downstream at different datum.

AVERAGE DISCHARGE.--62 years (1912-74), 240 ft³/s (6.797 m³/s), 21.58 in/yr (548 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,540 ft³/s (43.6 m³/s) Dec. 21 (gage height, 6.41 ft or 1.954 m); minimum, 22 ft³/s (0.62 m³/s) Aug. 17, 23.

Period of record: Maximum discharge, 12,800 ft³/s (362 m³/s) Aug. 19, 1955 (gage height, 15.36 ft or 4.682 m, from floodmarks, present site and datum), from rating curve extended above 2,700 ft³/s (76.5 m³/s) on basis of slope-area measurement of peak flow; minimum daily, 6.6 ft³/s (0.19 m³/s) Sept. 28, 29, 1957.

REMARKS.--Records good. Slight diurnal fluctuation at low flow caused by mill above station prior to 1956; regulation much greater prior to 1938. High flow slightly affected by retarding reservoirs since 1965. Records of suspended-sediment loads for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 451: 1916. WSP 711: Drainage area. WSP 1301: 1918(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	68	200	131	700	654	472	478	287	229	63	36	52
2	64	185	130	640	644	440	477	318	246	59	33	49
3	62	155	127	600	610	423	471	312	234	85	35	65
4	58	130	119	530	557	403	460	308	221	86	35	166
5	61	115	128	480	478	376	456	296	202	170	35	150
6	58	100	203	420	461	361	462	290	186	262	33	136
7	58	86	194	380	446	344	434	295	164	210	32	157
8	57	78	195	350	433	322	415	283	144	187	32	162
9	54	70	224	320	401	313	424	274	130	172	30	151
10	52	64	262	330	383	268	390	309	116	154	30	138
11	50	58	256	360	346	259	396	356	106	140	29	124
12	47	54	250	320	302	256	422	362	94	125	27	109
13	45	52	242	290	331	220	423	480	89	113	26	111
14	45	52	256	250	318	201	431	465	81	103	26	287
15	36	54	257	240	299	222	482	460	75	103	24	223
16	37	56	262	250	291	229	472	434	75	91	23	188
17	37	60	359	240	262	453	477	414	98	84	24	166
18	38	62	370	220	243	441	459	382	101	76	28	152
19	39	64	350	260	247	460	466	350	105	73	25	133
20	38	65	360	270	323	450	448	315	105	67	24	124
21	39	63	984	300	355	562	424	286	101	63	24	152
22	38	68	1,110	360	418	750	401	262	99	59	23	284
23	41	68	1,180	450	574	764	384	247	92	55	32	179
24	40	69	1,140	450	554	752	365	243	88	51	38	163
25	39	86	1,070	430	613	688	344	256	82	48	35	149
26	39	92	973	426	578	665	318	248	76	46	33	133
27	37	95	991	566	539	595	297	245	76	44	32	120
28	35	117	951	657	503	558	279	227	77	42	32	113
29	40	138	907	744	------	519	258	222	74	41	34	503
30	140	135	850	749	------	495	242	217	68	40	50	565
31	190	------	780	729	------	504	------	205	------	38	55	------
TOTAL	1,682	2,691	15,611	13,311	12,163	13,765	12,255	9,648	3,634	2,950	975	5,124
MEAN	54.3	89.7	504	429	434	444	409	311	121	95.2	31.5	171
MAX	190	200	1,180	749	654	764	482	480	246	262	55	565
MIN	35	52	119	220	243	201	242	205	68	38	23	49
CFSM	.36	.59	3.34	2.84	2.87	2.94	2.71	2.06	.80	.63	.21	1.13
IN.	.41	.66	3.85	3.28	3.00	3.39	3.02	2.38	.90	.73	.24	1.26

CAL YR 1973 TOTAL 110,552 MEAN 303 MAX 1,180 MIN 34 CFSM 2.01 IN 27.24
WTR YR 1974 TOTAL 93,809 MEAN 257 MAX 1,180 MIN 23 CFSM 1.70 IN 23.11

PEAK DISCHARGE (BASE, 840 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-21	1600	6.41	1,540				
3-21	2300	5.26	855				

01177000 CHICOPEE RIVER AT INDIAN ORCHARD, MASS.

LOCATION.--Lat 42°09'38", long 72°30'52", Hampden County, on left bank 1,000 ft (300 m) downstream from West Street Bridge at Indian Orchard, 1.1 mi (1.8 km) upstream from Fuller Brook, and 7.2 mi (11.6 km) upstream from mouth.

DRAINAGE AREA.--688 mi² (1,782 km²).

PERIOD OF RECORD.--August 1928 to current year. Published as "at Bircham Bend" prior to November 1938.

GAGE.--Water-stage recorder. Altitude of gage is 125 ft (38 m) from topographic map. Prior to Nov. 1, 1938, water-stage recorder at site 1.8 mi (2.9 km) downstream at different datum.

AVERAGE DISCHARGE.--46 years, 1,081 ft³/s (30.61 m³/s), 21.34 in/yr (542 mm/yr), adjusted to present drainage area and for storage and diversions.

EXTREMES.--Current year: Maximum discharge, 6,680 ft³/s (189 m³/s) Dec. 22 (gage height, 10.33 ft or 3.149 m); minimum daily, 68 ft³/s (1.93 m³/s) Oct. 14.

Period of record: Maximum discharge, 45,200 ft³/s (1,280 m³/s) Sept. 21, 1938, by computation of flow over dam; minimum daily, 16 ft³/s (0.45 m³/s) several times in 1929-31.

REMARKS.--Records good except those for August and September, which are fair. Diversion since 1941 from 186 mi² (482 km²) in Swift River basin and at times since 1931 from 97 mi² (251 km²) in Ware River basin for Boston metropolitan district; since 1950, for Chicopee; since 1952, for South Hadley; and, at times during 1966 and 1967, for Worcester; diversions at times since 1955 from 6.5 mi² (16.8 km) in Ware River basin for Fitchburg. Diversion from Ludlow Reservoir for Springfield and, prior to 1952, for Chicopee. See table below for figures of diversion. Flow regulated by powerplants above station, by Quabbin Reservoir (21 mi or 34 km upstream) on Swift River since 1939, by Barre Falls Reservoir on Ware River since 1958, by Conant Brook Reservoir since 1966 (see p. 214), and by smaller reservoirs.

REVISIONS (WATER YEARS).--WSP 711: Drainage area. WSP 1231: 1934.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	159	696	553	1,720	1,740	1,240	1,450	1,140	833	418	209	264
2	194	657	456	1,590	1,590	1,220	1,330	1,180	1,070	249	144	257
3	183	629	391	1,470	1,370	1,020	1,380	1,050	901	436	152	386
4	226	502	565	1,390	1,390	1,220	1,290	1,100	797	533	197	454
5	204	480	495	1,250	1,270	1,120	1,350	967	676	837	194	491
6	180	473	920	1,170	1,130	1,080	1,500	957	647	2,380	167	473
7	200	430	890	1,170	1,250	1,050	1,380	1,020	614	1,180	209	518
8	213	289	697	1,040	1,140	985	1,230	1,080	551	809	147	541
9	219	457	750	839	1,130	961	1,290	900	520	641	154	446
10	207	280	1,010	912	977	885	1,280	1,060	469	528	119	410
11	175	179	905	1,040	1,000	816	1,240	1,430	439	450	144	349
12	144	359	790	1,030	923	838	1,380	1,300	415	423	180	349
13	161	311	730	890	971	791	1,360	1,920	429	372	142	264
14	68	250	783	861	1,040	744	1,350	1,830	387	331	92	723
15	264	277	861	942	963	757	1,560	1,470	342	477	135	634
16	222	275	790	956	861	821	1,640	1,270	362	356	236	602
17	191	271	804	811	881	1,920	1,420	1,150	527	294	191	395
18	168	229	1,550	783	798	2,100	1,280	1,140	565	236	183	415
19	167	237	1,090	1,020	846	1,600	1,290	976	569	236	142	286
20	235	299	1,040	1,040	1,250	1,390	1,300	885	501	239	200	327
21	159	256	2,830	1,070	1,370	1,620	1,230	844	454	229	144	541
22	162	252	5,630	1,410	1,400	3,470	1,110	789	532	257	191	927
23	163	257	3,370	1,480	2,270	2,580	1,120	788	460	213	226	777
24	228	326	2,520	1,520	1,920	2,090	1,090	812	402	191	275	559
25	200	380	2,060	1,450	1,650	1,850	1,050	921	466	216	186	451
26	204	271	1,980	1,300	1,500	1,660	1,000	839	425	213	123	435
27	144	570	2,390	1,660	1,330	1,540	918	820	407	191	157	377
28	175	510	2,560	2,670	1,250	1,430	881	794	386	167	302	372
29	213	609	2,330	2,530	-------	1,300	873	767	418	197	286	1,780
30	508	602	2,030	2,260	-------	1,260	821	754	383	175	367	3,310
31	829	-------	1,850	1,960	-------	1,390	-------	742	-------	209	246	-------
TOTAL	6,765	11,613	45,628	41,234	35,210	42,748	37,393	32,615	15,947	13,733	5,840	18,713
MEAN	218	387	1,472	1,330	1,258	1,379	1,246	1,052	532	443	188	624
MAX	829	696	5,630	2,670	2,270	3,470	1,640	1,920	1,070	2,380	367	3,310
MIN	68	179	391	783	798	744	821	742	342	167	92	257
(†)	+499	+433	+189	+54.3	+29.2	+127	+53.8	+367	+483	+447	+456	+516
MEAN ‡	229	426	2,457	1,899	1,747	2,107	1,818	1,602	682	491	149	915
CFSM ‡	.33	.62	3.57	2.76	2.54	3.06	2.64	2.33	.99	.71	.22	1.33
IN. ‡	.38	.69	4.12	3.18	2.65	3.53	2.95	2.68	1.11	.82	.25	1.48

CAL YR 1973 TOTAL 361,161 MEAN 989 MAX 5,630 MIN 68 MEAN‡ 1,477 CFSM‡ 2.15 IN‡ 29.15
WTR YR 1974 TOTAL 307,431 MEAN 842 MAX 5,630 MIN 68 MEAN‡ 1,209 CFSM‡ 1.76 IN‡ 23.85

† Diversions, in cubic feet per second, from Ware and Swift River basins for supply of Boston metropolitan district, Chicopee, and South Hadley, and from Ludlow Reservoir for Springfield.

‡ Adjusted for diversions and for change in contents in Quabbin Reservoir (adjusted for diversion from Ware River) and Barre Falls, Conant Brook, and Ludlow Reservoirs.

01179500 WESTFIELD RIVER AT KNIGHTVILLE, MASS.

LOCATION.--Lat 42°17'16", long 72°51'53", Hampshire County, on left bank at Knightville, 0.2 mi (0.3 km) downstream from Knightville Dam, 0.2 mi (0.3 km) upstream from Sykes Brook, 2.4 mi (3.9 km) upstream from Middle Branch, 3.5 mi (5.6 km) north of Huntington, and at mile 29.7 (kilometre 47.8).

DRAINAGE AREA.--162 mi² (420 km²).

PERIOD OF RECORD.--August 1909 to current year.

GAGE.--Water-stage recorder. Concrete control since Dec. 20, 1940. Datum of gage is 461.25 ft (140.589 m) above mean sea level (levels by Corps of Engineers). Prior to Jan. 11, 1935, nonrecording gage at site 0.5 mi (0.8 km) upstream at different datum. Jan. 11, 1935, to May 20, 1940, water-stage recorder at site 700 ft (200 m) upstream at datum 10.57 ft (3.222 m) higher. May 21 to Dec. 19, 1940, nonrecording gage at site 700 ft (200 m) upstream at datum 18.75 ft (5.715 m) higher.

AVERAGE DISCHARGE.--65 years, 321 ft³/s (9.091 m³/s), 26.91 in/yr (684 mm/yr).

EXTREMES.--Current year: Maximum discharge, 3,700 ft³/s (105 m³/s) Dec. 30 (gage height, 6.21 ft or 1.893 m); minimum, 7.6 ft³/s (0.22 m³/s) Jan. 8; minimum daily, 25 ft³/s (0.71 m³/s) Aug. 16.

Period of record: Maximum discharge, 37,900 ft³/s (1,070 m³/s) Sept. 21, 1938 (gage height, 29.58 ft or 9.016 m, from floodmarks, site and datum then in use), from rating curve extended above 3,800 ft³/s (108 m³/s) on basis of slope-area measurements at gage heights 24.07 and 29.58 ft (7.337 and 9.016 m); minimum, 0.1 ft³/s (0.003 m³/s) Apr. 3, 1965; minimum daily, 1.1 ft³/s (0.031 m³/s) Apr. 2, 1965. Maximum discharge since construction of Knightville Reservoir in 1941, 6,660 ft³/s (189 m³/s) Mar. 21, 1945 (gage height, 7.45 ft or 2.271 m).

REMARKS.--Records excellent. Flow regulated by Knightville Reservoir since 1941 (see p. 214).

REVISIONS (WATER YEARS).--WSP 415: 1909-12. WSP 1001: 1941-43. WSP 1231: 1910, 1912, 1913(M), 1914-15, 1916-19(M), 1921-23(M), 1925-27(M), 1929-33(M), 1935(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	40	380	236	690	625	394	257	648	528	128	67	124
2	47	352	184	552	426	442	264	443	510	110	56	121
3	51	201	161	314	376	351	543	359	338	361	51	240
4	52	157	161	431	380	320	908	498	264	366	59	1,150
5	52	128	245	414	325	603	1,390	373	223	512	102	384
6	49	113	941	331	240	1,290	887	316	189	1,680	82	196
7	47	102	527	277	339	672	623	410	164	303	58	233
8	43	95	314	284	293	640	871	350	147	525	49	252
9	41	90	453	304	309	536	1,690	296	137	199	45	163
10	39	82	1,730	206	266	446	1,720	528	123	154	40	122
11	39	72	931	237	236	387	1,710	724	110	139	37	101
12	43	82	490	287	241	264	1,080	522	99	115	34	87
13	48	79	362	231	294	196	989	2,300	108	99	31	82
14	47	79	459	209	258	171	845	981	101	90	30	268
15	43	78	739	212	221	172	1,730	623	90	214	27	182
16	42	82	576	316	200	178	1,700	493	95	165	25	121
17	40	96	423	257	230	215	991	525	519	112	27	95
18	40	86	210	145	215	329	638	456	332	91	38	88
19	41	79	135	219	199	794	556	361	185	84	47	90
20	44	74	254	237	281	814	481	310	146	87	36	84
21	42	68	286	258	396	609	422	277	145	75	30	118
22	41	81	914	515	412	827	387	260	214	65	26	309
23	39	90	1,580	601	890	876	420	316	150	61	32	171
24	38	84	1,650	569	977	959	460	395	121	57	46	119
25	37	147	1,600	433	876	703	399	714	108	59	46	101
26	37	243	1,740	374	513	672	334	419	187	71	36	113
27	37	175	1,920	417	341	574	293	339	265	63	30	112
28	36	387	2,210	1,100	337	443	276	300	228	69	42	104
29	41	544	3,080	1,390	-------	338	247	271	171	104	72	608
30	631	311	3,350	1,230	-------	500	257	277	157	85	291	419
31	610	-------	2,810	785	-------	552	-------	240	-------	81	263	-------
TOTAL	2,477	4,557	30,671	13,825	10,696	16,257	23,368	15,324	6,154	6,324	1,855	6,356
MEAN	79.9	152	989	446	382	524	779	494	205	204	59.8	212
MAX	631	544	3,350	1,390	977	1,290	1,730	2,300	528	1,680	291	1,150
MIN	36	68	135	145	199	171	247	240	90	57	25	82
MEAN†	81.8	150	1,033	407	384	550	746	494	205	204	60.0	212
CFSM†	.50	.93	6.38	2.51	2.37	3.40	4.60	3.05	1.27	1.26	.37	1.31
IN.†	.58	1.03	7.36	2.90	2.47	3.91	5.14	3.52	1.41	1.45	.43	1.46

CAL YR 1973 TOTAL 175,159 MEAN 480 MAX 3,350 MIN 36 MEAN† 483 CFSM† 2.98 IN† 40.50
WTR YR 1974 TOTAL 137,064 MEAN 378 MAX 3,350 MIN 25 MEAN† 378 CFSM† 2.33 IN† 31.66

† Adjusted for change in contents in Knightville Reservoir.

01180000 SYKES BROOK AT KNIGHTVILLE, MASS.

LOCATION.--Lat 42°17'27", long 72°52'15", Hampshire County, on right bank 200 ft (60 m) downstream from bridge on State Highway 112 at Knightville, 0.4 mi (0.6 km) upstream from mouth, 0.4 mi (0.6 km) west of Knightville Dam, and 3.5 mi (5.6 km) north of Huntington.

DRAINAGE AREA.--1.64 mi² (4.25 km²).

PERIOD OF RECORD.--June 1945 to July 1974 (discontinued).

GAGE.--Water-stage recorder and concrete control. Datum of gage is 641.40 ft (195.499 m) above mean sea level.

AVERAGE DISCHARGE.--28 years (1945-73), 2.58 ft³/s (0.073 m³/s), 21.36 in/yr (543 mm/yr).

EXTREMES.--October 1973 to July 1974: Maximum discharge, 123 ft³/s (3.48 m³/s) Dec. 21 (gage height, 2.79 ft or 0.850 m); minimum, 0.27 ft³/s (0.008 m³/s) Oct. 2.

Period of record: Maximum discharge, 680 ft³/s (19.2 m³/s) Aug. 19, 1955 (gage height, 4.485 ft or 1.367 m), from rating curve extended above 80 ft³/s (2.27 m³/s); minimum, 0.01 ft³/s (0.001 m³/s) July 28, 1970 (caused by unusual regulation).

REMARKS.--Records good except those for periods of no gage-height record or indefinite stage-discharge relation, which are fair.

DISCHARGE, IN CUBIC FEET PER SECOND, OCTOBER 1973 TO JULY 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL
1	.29	2.2	1.4	6.2	5.9	3.4	5.8	5.0	4.8	.83
2	.29	1.6	1.2	4.9	4.9	3.2	7.2	3.4	2.9	.77
3	.33	1.5	1.1	4.1	5.5	3.0	7.1	4.0	2.2	1.4
4	.33	1.3	1.0	3.7	4.6	3.7	7.6	4.3	1.8	1.0
5	.43	1.2	2.1	3.2	4.0	5.5	7.0	3.1	1.5	1.9
6	.52	1.1	2.9	3.0	4.0	5.5	8.0	2.9	1.3	2.7
7	.47	.95	2.1	2.7	3.8	5.1	6.5	3.0	1.1	1.6
8	.43	.86	1.8	2.5	2.7	4.9	5.4	2.6	1.0	1.3
9	.41	.78	6.8	2.5	2.5	3.9	5.0	2.3	1.0	1.1
10	.47	.72	7.2	2.8	2.3	3.5	4.7	5.7	.92	.88
11	.44	.68	4.1	2.5	2.3	3.0	4.9	4.6	.86	.71
12	.42	.64	3.0	2.2	2.2	2.7	6.0	12	.84	.56
13	.40	.62	2.4	2.0	2.4	2.3	7.0	19	.78	.41
14	.47	.60	4.4	1.9	2.4	2.2	6.0	8.3	.68	.37
15	.43	.59	3.6	1.9	2.1	2.1	10	6.1	.67	1.0
16	.40	.62	2.9	2.0	1.9	7.4	7.0	4.9	.92	.58
17	.37	.51	3.6	1.9	1.9	15	5.0	4.9	1.9	.45
18	.35	.50	2.5	1.9	1.8	6.8	4.2	3.7	1.3	.37
19	.37	.50	1.8	4.5	2.2	5.6	4.2	2.9	.99	
20	.38	.45	1.9	2.1	3.9	4.7	3.8	2.5	.98	
21	.36	.46	58	4.1	2.9	13	3.0	2.3	1.1	
22	.34	.62	22	6.0	9.1	12	2.7	2.2	1.1	
23	.32	.57	11	4.6	13	7.9	2.8	2.4	.95	
24	.31	.59	7.3	4.2	6.2	8.7	2.7	3.0	.88	
25	.30	1.1	5.2	3.4	4.7	6.2	2.5	3.2	.99	
26	.30	.96	7.3	3.2	3.8	5.0	2.2	2.4	1.0	
27	.30	.97	20	13	3.3	4.3	2.1	2.2	.97	
28	.30	2.3	18	11	3.2	3.8	2.0	2.0	.95	
29	.40	2.0	11	12	------	3.2	1.9	1.9	.97	
30	4.3	1.6	8.7	8.3	------	3.3	1.9	1.8	.80	
31	2.8	------	6.7	7.0	------	5.2	------	1.7	------	
TOTAL	18.03	29.29	233.0	135.3	109.5	166.1	146.2	130.3	38.15	
MEAN	.58	.98	7.52	4.36	3.91	5.36	4.87	4.20	1.27	
MAX	4.3	2.3	58	13	13	15	10	19	4.8	
MIN	.29	.45	1.0	1.9	1.8	2.1	1.9	1.7	.67	
CFSM	.35	.60	4.59	2.66	2.38	3.27	2.97	2.56	.77	
IN.	.41	.66	5.29	3.07	2.48	3.77	3.32	2.96	.87	

CAL YR 1973 TOTAL 280.32 MEAN .77 MAX 58 MIN .29 CFSM .47 IN 6.36

PEAK DISCHARGE (BASE, 35 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-21	1430	2.79	123				
5-12	2130	2.53	76				

NOTE.--No gage-height record Apr. 5 to May 1. Stage-discharge relation indefinite Oct. 1 to Nov. 14.

01180500 MIDDLE BRANCH WESTFIELD RIVER AT GOSS HEIGHTS, MASS.

LOCATION.--Lat 42°15'31", long 72°52'23", Hampshire County, on right bank at upstream side of highway bridge at Goss Heights, 0.3 mi (0.5 km) upstream from mouth, 0.7 mi (1.1 km) downstream from Littleville Dam, and 1.7 mi (2.7 km) north of Huntington.

DRAINAGE AREA.--52.6 mi² (136.2 km²).

PERIOD OF RECORD.--July 1910 to current year.

GAGE.--Water-stage recorder. Datum of gage is 399.30 ft (121.707 m) above mean sea level. Prior to June 25, 1930, datum was 2.00 ft (0.610 m) higher, and June 25, 1930, to Sept. 30, 1964, datum was 1.00 ft (0.305 m) higher. Prior to Sept. 8, 1912, nonrecording gage at same site.

AVERAGE DISCHARGE.--64 years, 103 ft³/s (2.917 m³/s), 26.59 in/yr (675 mm/yr), adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 835 ft³/s (23.6 m³/s) Dec. 27 (gage height, 4.49 ft or 1.369 m); minimum, 3.9 ft³/s (0.11 m³/s) Aug. 17; minimum daily, 4.4 ft³/s (0.12 m³/s) Aug. 16.

Period of record: Maximum discharge, 19,900 ft³/s (564 m³/s) Sept. 21, 1938 (gage height, 11.61 ft or 3.539 m, present datum), from rating curve extended above 3,200 ft³/s (90.6 m³/s) on basis of mean of two contracted-opening measurements of peak flow; maximum gage height, 14.87 ft (4.532 m), present datum, Mar. 12, 1936 (ice jam); practically no flow Sept. 3, 22, Oct. 20, 1910, July 30, 1912, Oct. 26, 27, 1914. Maximum discharge since construction of Littleville Dam in 1965, 1,360 ft³/s (38.5 m³/s) Apr. 25, 1972 (gage height, 5.05 ft or 1.539 m).

REMARKS.--Records good. Some diurnal fluctuation at low flow prior to 1952 caused by mill above station. Flow regulated by Littleville Lake (see p. 214) since 1965.

REVISIONS (WATER YEARS).--WSP 415: 1910-13. WSP 781: 1933(M), drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.9	109	95	309	226	109	126	165	101	39	12	43
2	9.1	107	71	193	173	114	148	165	158	33	11	36
3	9.9	78	57	146	138	106	211	130	121	37	10	44
4	10	56	51	126	125	107	374	144	93	77	12	207
5	12	44	57	104	104	229	450	128	75	77	24	150
6	11	53	251	92	90	309	377	109	63	303	20	81
7	10	49	211	90	96	241	418	114	53	195	16	64
8	9.9	26	136	82	94	219	306	114	46	106	13	69
9	9.5	20	156	68	86	175	214	101	42	69	11	55
10	9.1	21	348	72	80	144	173	123	38	50	9.5	41
11	9.1	20	345	74	75	119	156	202	33	39	8.0	33
12	8.8	20	329	74	72	109	219	178	29	32	6.9	26
13	8.8	20	257	70	70	89	294	585	28	26	6.3	23
14	9.9	21	207	60	72	80	264	468	27	26	6.1	46
15	9.5	21	264	68	74	76	446	264	25	29	5.2	58
16	9.1	15	184	70	68	89	461	189	24	31	4.4	47
17	8.8	17	156	70	66	384	377	167	58	26	4.7	35
18	8.4	20	144	55	62	294	231	161	101	21	9.1	31
19	9.1	21	101	64	60	202	180	130	73	20	8.8	28
20	9.5	21	87	72	70	165	152	109	53	18	7.6	26
21	10	20	96	78	100	195	132	99	43	15	6.3	28
22	11	21	361	130	115	345	121	86	46	13	5.5	51
23	11	23	657	154	421	249	117	83	44	12	7.3	57
24	10	23	687	173	377	254	128	106	37	12	12	45
25	10	32	640	150	234	262	121	161	33	12	11	36
26	10	52	732	123	165	198	109	150	35	12	9.1	33
27	10	56	825	191	123	165	96	116	45	12	7.6	31
28	9.5	93	820	311	110	138	87	98	52	12	8.8	30
29	11	173	772	411	------	116	81	86	49	12	11	114
30	104	132	696	411	------	110	77	81	45	14	29	148
31	152	------	594	270	------	119	------	75	------	13	53	------
TOTAL	539.9	1,384	10,387	4,361	3,546	5,511	6,646	4,887	1,670	1,393	366.2	1,716
MEAN	17.4	46.1	335	141	127	178	222	158	55.7	44.9	11.8	57.2
MAX	152	173	825	411	421	384	461	585	158	303	53	207
MIN	8.4	15	51	55	60	76	77	75	24	12	4.4	23
MEAN †	22.8	45.1	351	129	122	178	220	158	54.7	43.5	13.8	60.2
CFSM †	.43	.86	6.67	2.45	2.32	3.38	4.18	3.00	1.04	.83	.26	1.14
IN. †	.50	.96	7.69	2.82	2.41	3.90	4.67	3.46	1.16	.95	.30	1.28

CAL YR 1973 TOTAL 52,978.6 MEAN 145 MAX 825 MIN 8.4 MEAN† 147 CFSM† 2.79 IN† 37.83
WTR YR 1974 TOTAL 42,407.1 MEAN 116 MAX 825 MIN 4.4 MEAN† 117 CFSM† 2.22 IN† 30.10

† Adjusted for change in contents in Littleville Lake.

01180800 WALKER BROOK NEAR BECKET CENTER, MASS.

LOCATION.--Lat 42°15'49", long 73°02'48", Berkshire County, on right bank 20 ft (6 m) upstream from culvert on U. S. Highway 20, 0.2 mi (0.3 km) east of Bonny Rigg Corners, 1.7 mi (2.7 km) southeast of Becket Center, and 3.5 mi (5.6 km) west of Chester.

DRAINAGE AREA.--3.01 mi² (7.80 km²).

PERIOD OF RECORD.--Occasional low-flow measurements, water year 1962. November 1962 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 1,280 ft (390 m) from topographic map.

AVERAGE DISCHARGE.--11 years (1963-74), 6.31 ft³/s (0.179 m³/s), 28.47 in/yr (723 mm/yr).

EXTREMES.--Current year: Maximum discharge, 373 ft³/s (10.6 m³/s) Dec. 21 (gage height, 7.08 ft or 2.158 m); from rating curve extended above 93 ft³/s (2.63 m³/s); minimum, 0.41 ft³/s (0.012 m³/s) Oct. 3, Aug. 22, 23.

Period of record: Maximum discharge, 373 ft³/s (10.6 m³/s) Dec. 21, 1973 (gage height, 7.08 ft or 2.158 m), from rating curve extended above 93 ft³/s (2.63 m³/s); minimum, 0.14 ft³/s (0.004 m³/s) Sept. 11, 1963, Aug. 24, 1965.

REMARKS.--Records good. Records of chemical analyses and water temperatures for the current year are published in Part 2 of this report. Recording rain gage at station since May 1963 (no winter records).

REVISIONS (WATER YEARS).--Revised figures of discharge, in cubic feet per second, in water year 1973, superseding figures published in WRD Mass., N.H., R.I., Vt., 1973 are given herewith:

Date 1973	Discharge	Date 1973	Discharge	Date 1973	Discharge
Sept. 20	1.4	Sept. 24	2.3	Sept. 28	0.95
21	1.1	25	2.5	29	.80
22	1.0	26	1.6	30	.70
23	2.0	27	1.2		

Month	Cfs days	Mean	Maximum	Minimum	Cfsm	In
September 1973	40.44	1.35	2.6	.70	.45	.50
WTR YR 1973	3,265.97	8.95	71	.50	2.97	40.36

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.60	22	5.6	14	8.4	7.4	7.0	18	12	1.6	.52	2.1
2	.57	18	4.1	12	7.7	6.5	12	8.5	8.3	1.2	.52	2.7
3	.46	14	3.8	10	7.2	5.2	16	7.5	5.3	4.4	.52	7.7
4	.46	8.9	3.6	10	7.0	9.1	25	8.9	3.7	3.4	1.4	21
5	.58	3.4	13	8.2	6.3	17	22	6.7	3.0	3.7	2.5	6.5
6	.63	2.9	22	8.0	5.6	12	17	5.9	2.6	6.4	1.4	3.3
7	.63	2.9	12	7.8	5.4	10	12	7.4	2.2	2.8	.99	7.2
8	.46	2.7	7.2	5.8	4.9	9.9	9.1	5.8	1.8	1.8	.85	4.5
9	.46	2.7	28	4.5	4.3	8.4	8.1	5.1	1.8	1.3	.69	2.6
10	.46	2.3	34	6.0	4.1	7.2	7.4	10	1.6	1.1	.63	1.9
11	.80	2.1	17	6.4	4.1	5.2	8.4	10	1.4	.74	.52	1.5
12	1.1	1.9	14	5.8	4.1	5.0	15	18	1.2	.72	.52	1.2
13	.74	2.3	9.7	4.7	4.3	4.3	17	43	1.2	.58	.52	2.3
14	.74	2.1	19	5.2	4.5	5.0	14	16	1.1	.58	.52	8.7
15	[illegible]	2.1	16	7.2	3.8	4.7	52	11	1.1	3.3	.52	3.3
16	.52	3.1	11	6.0	3.3	11	25	8.7	2.2	1.3	.46	2.3
17	.52		11	5.4	3.1	21	17	11	8.2	1.0	.99	1.5
18	.46		9.7	4.2	2.9	11	13	9.1	4.3	.83	1.4	1.2
19	.69	[illegible]	7.4	7.0	3.0	11	13	6.5	2.2	.88	.74	1.2
20	.99	2.1	7.2	6.2	7.4	11	10	5.4	1.8	1.0	.63	1.5
21	.69	1.9	136	7.0	5.4	17	7.1	4.9	3.0	.76	.52	6.5
22	.52	2.3	44	12	18	15	6.5	4.7	3.7	.63	.52	8.7
23	.52	2.4	26	10	35	10	6.2	6.5	2.2	.52	.68	3.4
24	.52	2.7	19	12	12	18	5.8	7.7	1.8	.52	2.2	2.3
25	.52	5.2	14	9.5	9.4	7.9	5.5	8.9	2.2	.69	.99	2.1
26	.52	5.2	24	8.0	7.2	7.9	5.1	6.1	3.9	.74	.74	2.6
27	.52	4.3	51	19	5.9	6.5	4.7	5.2	3.5	.74	.74	2.1
28	.52	12	43	18	5.9	5.2	4.5	4.6	2.8	.74	1.4	3.8
29	6.5	12	24	22	------	3.6	4.3	4.1	2.2	.74	1.3	12
30	49	7.4	19	8.6	------	3.9	4.8	4.1	1.9	.69	8.1	6.5
31	23	------	15	8.9	------	6.1	------	3.7	------	.63	4.3	------
TOTAL	95.33	158.4	670.3	279.4	200.2	283.0	374.5	283.0	94.2	46.03	38.33	134.2
MEAN	3.08	5.28	21.6	9.01	7.15	9.13	12.5	9.13	3.14	1.48	1.24	4.47
MAX	49	22	136	22	35	21	52	43	12	6.4	8.1	21
MIN	.46	1.9	3.6	4.2	2.9	3.6	4.3	3.7	1.1	.52	.46	1.2
CFSM	1.02	1.75	7.18	2.99	2.38	3.03	4.15	3.03	1.04	.49	.41	1.49
IN.	1.18	1.96	8.28	3.45	2.47	3.50	4.63	3.50	1.16	.57	.47	1.66

CAL YR 1973 TOTAL 3,354.07 MEAN 9.19 MAX 136 MIN .46 CFSM 3.05 IN 41.45
WTR YR 1974 TOTAL 2,656.89 MEAN 7.28 MAX 136 MIN .46 CFSM 2.42 IN 32.84

PEAK DISCHARGE (BASE, 80 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10-30	0530	4.97	117	4-15	0145	4.62	90
12-9	1715	4.61	87	5-12	2245	4.85	109
12-21	1400	7.08	373				

CONNECTICUT RIVER BASIN

01181000 WEST BRANCH WESTFIELD RIVER AT HUNTINGTON, MASS.

LOCATION.--Lat 42°14'14", long 72°53'46", Hampshire County, on left bank at Huntington, 0.4 mi (0.6 km) downstream from Roaring Brook, and 1.5 mi (2.4 km) upstream from mouth.

DRAINAGE AREA.--93.7 mi² (242.7 km²).

PERIOD OF RECORD.--September 1935 to current year.

GAGE.--Water-stage recorder. Datum of gage is 388.60 ft (118.445 m) above mean sea level.

AVERAGE DISCHARGE.--39 years, 185 ft³/s (5.239 m³/s), 26.81 in/yr (681 mm/yr).

EXTREMES.--Current year: Maximum discharge, 10,700 ft³/s (303 m³/s) Dec. 21 (gage height, 9.69 ft or 2.954 m); minimum, 11 ft³/s (0.31 m³/s) Aug. 16, 17.

Period of record: Maximum discharge, 26,100 ft³/s (739 m³/s) Aug. 19, 1955 (gage height, 15.27 ft or 4.654 m), from rating curve extended above 9,500 ft³/s (269 m³/s) on basis of slope-area measurement of peak flow; minimum, 3.3 ft³/s (0.093 m³/s) Aug. 9, 1955, Nov. 27, 1957.

REMARKS.--Records good. Prior to 1950, some diurnal fluctuation at low flow caused by small mill above station. Records of suspended-sediment loads for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	229	142	445	432	180	253	458	267	67	17	50
2	20	215	111	381	298	174	326	253	212	50	16	52
3	21	135	98	332	272	150	484	223	145	104	15	148
4	22	100	95	309	248	216	865	272	119	117	23	612
5	26	74	225	253	192	504	838	209	102	97	85	168
6	28	65	602	248	186	368	634	186	89	320	35	95
7	27	65	267	244	202	277	387	220	79	113	23	141
8	25	71	191	183	180	248	320	189	71	77	19	132
9	25	55	761	148	163	189	309	168	67	61	17	86
10	44	50	987	174	165	174	272	315	60	49	16	67
11	36	48	404	202	171	151	293	326	53	41	14	50
12	36	48	283	189	158	141	478	381	47	36	13	41
13	28	49	222	145	160	113	546	1.630	55	30	13	36
14	42	48	485	153	174	111	406	432	49	26	13	180
15	41	48	398	220	148	111	1.260	298	45	100	12	104
16	38	55	263	192	138	171	518	244	44	66	11	72
17	37	66	279	174	141	950	362	272	189	42	11	53
18	38	55	225	130	127	381	309	231	121	31	26	70
19	40	51	163	209	125	277	287	189	77	30	19	61
20	41	49	171	198	235	299	258	165	65	34	14	50
21	40	45	5.020	202	209	549	231	148	68	27	13	109
22	39	52	1.570	432	568	605	212	138	102	23	12	220
23	36	55	727	368	1.130	369	220	165	70	21	15	119
24	37	51	532	425	381	535	220	192	58	20	63	88
25	29	100	412	320	258	394	202	248	51	22	28	76
26	20	133	768	277	186	293	180	171	92	22	21	76
27	24	104	1.960	768	160	259	165	148	96	21	18	68
28	20	271	1.350	794	155	224	153	132	92	21	22	66
29	23	313	768	847	------	189	145	121	76	20	37	374
30	617	179	627	546	------	189	143	119	68	21	132	209
31	267	------	491	458	------	235	------	107	------	20	115	------
TOTAL	1.787	2.879	20.597	9.966	6.962	9.026	11.276	8.350	2.729	1.729	888	3.673
MEAN	57.6	96.0	664	321	249	291	376	269	91.0	55.8	28.6	122
MAX	617	313	5.020	847	1.130	950	1.260	1.630	267	320	132	612
MIN	20	45	95	130	125	111	143	107	44	20	11	36
CFSM	.61	1.02	7.09	3.43	2.66	3.11	4.01	2.87	.97	.60	.31	1.30
IN.	.71	1.14	8.18	3.96	2.76	3.58	4.48	3.32	1.08	.69	.35	1.46

CAL YR 1973 TOTAL 102.391 MEAN 281 MAX 5.020 MIN 17 CFSM 3.00 IN 40.65
WTR YR 1974 TOTAL 79.862 MEAN 219 MAX 5.020 MIN 11 CFSM 2.34 IN 31.71

PEAK DISCHARGE (BASE, 2,700 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-21	1530	9.69	10,700				
5-13	0200	5.76	3,790				

CONNECTICUT RIVER BASIN

01183000 WESTFIELD LITTLE RIVER AT OUTLET OF COBBLE MOUNTAIN RESERVOIR, NEAR WESTFIELD, MASS.

LOCATION.--Lat 42°07'34", long 72°53'37", Hampden County, at Cobble Mountain Dam, 7.5 mi (12.1 km) west of Westfield, and at mi 13.0 (kilometre 20.9).

DRAINAGE AREA.--45.8 mi² (118.6 km²).

PERIOD OF RECORD.--July 1905 to current year. Published as "near Blandford" 1905-11 and as "near Westfield" 1912-35.

GAGE.--Venturi meters at outlet tunnel at powerhouse 2.4 mi (3.9 km) downstream. Prior to Mar. 1, 1910, nonrecording gage at site 0.2 mi (0.3 km) upstream and Mar. 1, 1910, to Sept. 30, 1935, water-stage recorder at diversion dam 2.8 mi (4.5 km) downstream.

AVERAGE DISCHARGE.--64 years (1910-74), 89.0 ft³/s (2.520 m³/s), 26.39 in/yr (670 mm/yr), adjusted to present drainage area.

REMARKS.--Discharge computed on basis of flow through venturi meters and flow over reservoir spillway or through bypass tunnel. Flow regulated by Borden Brook Reservoir since 1910 and Cobble Mountain Reservoir since August 1931 (see p.214); discharge adjusted for effect of this regulation. No flow over spillway or through bypass tunnel during year.

COOPERATION.--Records furnished by Springfield Board of Water Commissioners.

REVISIONS.--WSP 501: Drainage area.

MONTHLY DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

Month	Mean	Per square mile	Runoff in inches
October	26.1	0.57	0.66
November	42.7	.93	1.04
December	324	7.07	8.15
Calendar year 1973	122	2.66	36.13
January	124	2.71	3.11
February	112	2.45	2.55
March	162	3.54	4.07
April	166	3.62	4.04
May	111	2.42	2.79
June	30.2	.66	.74
July	18.0	.39	.45
August	6.55	.14	.16
September	35.0	.76	.85
Water year 1973-74	96.5	2.11	28.62

01183450 GREAT BROOK NEAR WESTFIELD, MASS.

LOCATION.--Lat 42°05'18", long 72°43'24", Hampden County, on left bank 50 ft (15 m) downstream from bridge on Shaker Rd., 0.4 mi (0.6 km) downstream from Kellog Brook, 1.4 mi (2.3 km) upstream from mouth, and 2.5 mi (4.0 km) southeast of center of Westfield.

DRAINAGE AREA.--29.2 mi² (75.6 km²).

PERIOD OF RECORD.--November 1972 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 135 ft (41.1 m) from topographic map.

EXTREMES.--Current year: Maximum discharge, 651 ft³/s (18.4 m³/s) Dec. 21 (gage height, 5.33 ft or 1.625 m), from rating curve extended above 270 ft³/s (7.65 m³/s); minimum, 4.8 ft³/s (0.14 m³/s) Aug. 16, 17.

Period of record: Maximum discharge, 651 ft³/s (18.4 m³/s) Dec. 21, 1973 (gage height, 5.33 ft or 1.625 m), from rating curve extended above 270 ft³/s (7.65 m³/s); minimum, 4.8 ft³/s (0.14 m³/s) Aug. 16, 17, 1974.

REMARKS.--Records good except those for winter period, which are fair. Diversion above station for municipal supply of West Springfield.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	31	19	60	67	43	85	55	34	18	10	13
2	13	25	18	58	54	45	67	47	35	17	9.0	11
3	15	22	17	52	48	42	61	40	28	20	8.2	18
4	19	19	17	50	46	42	54	45	26	19	8.8	38
5	17	19	24	46	45	44	60	40	24	23	9.3	25
6	15	18	39	44	44	42	82	36	22	27	8.1	16
7	14	17	33	42	50	39	62	37	21	21	8.0	19
8	14	17	24	40	47	37	50	38	21	18	8.3	19
9	14	17	49	37	43	36	59	35	21	16	8.3	16
10	14	16	98	38	40	35	66	48	20	15	7.3	14
11	13	15	53	40	39	32	69	62	19	15	6.0	13
12	13	15	34	37	38	32	86	50	17	14	6.3	12
13	13	15	30	32	36	30	75	106	19	13	6.1	11
14	13	15	44	33	37	29	71	73	19	13	6.2	11
15	13	15	58	36	36	29	85	50	17	15	6.2	10
16	13	15	39	40	36	38	77	43	16	15	5.6	9.4
17	13	15	36	34	34	138	57	40	32	14	5.5	9.0
18	13	15	36	30	32	100	51	38	26	13	8.7	9.5
19	13	15	31	33	33	57	51	34	20	14	7.4	9.9
20	13	14	32	37	76	49	53	32	19	15	6.6	9.8
21	13	14	270	39	75	81	48	31	20	13	6.5	14
22	13	15	345	85	87	168	45	31	23	13	5.5	18
23	13	15	130	92	139	88	43	30	20	12	12	13
24	13	15	62	82	78	67	42	32	19	12	23	12
25	13	23	47	65	55	61	40	38	20	12	13	11
26	[illegible]	30	45	56	48	52	38	32	22	12	10	11
27	13	28	94	120	42	50	36	29	20	11	9.5	12
28	13	35	125	181	41	46	35	29	20	12	9.4	12
29	13	28	107	139	------	42	34	28	18	11	10	194
30	70	23	79	104	------	42	33	28	18	11	16	127
31	59	------	66	76	------	67	------	27	------	11	17	------
TOTAL	524	576	2,101	1,858	1,446	1,703	1,715	1,284	656	465	281.8	717.6
MEAN	16.9	19.2	67.8	59.9	51.6	54.9	57.2	41.4	21.9	15.0	9.09	23.9
MAX	70	35	345	181	139	168	86	106	35	27	23	194
MIN	13	14	17	30	32	29	33	27	16	11	5.5	9.0
MEAN†	20.5	23.6	72.1	64.9	56.6	59.8	61.9	45.9	27.6	21.4	15.8	29.2
CFSM†	.70	.81	2.47	2.22	1.94	2.05	2.12	1.57	.95	.73	.54	1.00
IN.†	.81	.90	2.85	2.56	2.02	2.36	2.37	1.81	1.05	.84	.62	1.11

CAL YR 1973 TOTAL 17,341.0 MEAN 47.5 MAX 370 MIN 11 MEAN† 52.7 CFSM† 1.80 IN† 24.50
WTR YR 1974 TOTAL 13,327.4 MEAN 36.5 MAX 345 MIN 5.5 MEAN† 41.5 CFSM† 1.42 IN† 19.32

PEAK DISCHARGE (BASE, 240 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-21	2215	5.33	651				
9-29	0615	3.86	257				

† Adjusted for diversion for municipal supply of West Springfield; records furnished by town of West Springfield.

01183500 WESTFIELD RIVER NEAR WESTFIELD, MASS.

LOCATION.--Lat 42°06'24", long 72°41'58", Hampden County, on left bank 0.7 mi (1.1 km) downstream from Great Brook, 3 mi (5 km) east of Westfield, and 8.1 mi (13.0 km) upstream from mouth.

DRAINAGE AREA.--497 mi² (1,287 km²).

PERIOD OF RECORD.--June 1914 to current year.

GAGE.--Water-stage recorder. Datum of gage is 98.25 ft (29.947 m) above mean sea level. Prior to Nov. 3, 1933, on right bank at same datum.

AVERAGE DISCHARGE.--60 years, 941 ft³/s (26.65 m³/s), 25.71 in/yr (653 mm/yr), adjusted for diversion and, since October 1931, for storage.

EXTREMES.--Current year: Maximum discharge, 12,500 ft³/s (354 m³/s) Dec. 21 (gage height, 13.71 ft or 4.179 m); minimum, 89 ft³/s (2.52 m³/s) Aug. 16, 17; minimum daily, 94 ft³/s (2.66 m³/s) Aug. 17.

Period of record: Maximum discharge, 70,300 ft³/s (1,990 m³/s) Aug. 19, 1955 (gage height, 34.2 ft or 10.42 m, from floodmarks), from rating curve extended above 18,000 ft³/s (510 m³/s) on basis of computations of flow over dam at gage heights 27.20, 29.40, and 34.2 ft (8.291, 8.961, and 10.42 m); minimum, 9 ft³/s (0.25 m³/s) Oct. 2, 1921; minimum daily, 40 ft³/s (1.13 m³/s) Dec. 28, 29, 1914.

REMARKS.--Records excellent. Flow regulated by Borden Brook Reservoir, Cobble Mountain Reservoir since 1931, Knightville Reservoir since 1941, and Littleville Lake since 1965 (see p. 214). High flow slightly affected by retarding reservoirs since 1963. Diversion above station from Westfield Little River for municipal supply of Springfield. See table below for figures of diversion. Records of suspended-sediment loads for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 601: 1924(M). WSP 756: Drainage area. WSP 1051: 1919-21(M), 1925(M). WSP 1231: 1915-16(M), 1920.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	216	1,140	658	2,410	2,080	1,130	1,300	1,560	969	407	219	409
2	182	1,060	566	1,870	1,510	1,160	1,310	1,340	1,370	361	209	304
3	213	643	469	1,500	1,310	1,010	1,630	1,030	935	388	197	508
4	199	479	446	1,530	1,490	1,020	2,440	1,240	751	866	175	2,020
5	207	443	484	1,230	1,320	1,540	3,020	1,050	640	648	278	1,130
6	182	474	1,840	1,170	1,060	2,270	2,850	941	572	2,570	292	624
7	191	377	1,390	1,000	1,090	1,810	1,970	997	508	1,130	234	572
8	182	365	869	1,080	941	1,500	1,940	984	436	985	198	693
9	177	338	1,210	898	823	1,340	2,930	989	424	651	180	504
10	149	276	3,560	924	819	1,120	3,020	1,230	536	492	170	413
11	196	273	2,290	964	871	1,030	2,560	1,840	427	387	161	391
12	185	283	1,430	911	808	907	2,780	1,320	352	331	150	540
13	162	267	1,140	789	794	738	2,570	4,980	373	317	118	538
14	191	326	1,300	1,020	852	661	2,130	2,950	322	270	164	571
15	193	306	1,820	787	736	645	3,860	1,960	332	351	113	559
16	199	276	1,530	775	732	731	3,720	1,450	298	497	96	530
17	169	288	1,190	765	661	2,630	2,690	1,450	789	334	94	463
18	185	286	1,090	654	663	1,690	1,800	1,350	915	307	110	471
19	185	286	698	676	643	1,620	1,630	1,050	568	294	171	480
20	182	288	719	806	998	1,750	1,400	979	449	282	188	412
21	210	252	6,170	770	1,150	1,980	1,190	836	433	259	135	413
22	180	263	5,130	1,470	1,270	2,980	1,160	814	516	225	136	638
23	191	301	3,540	1,720	3,340	2,280	1,180	800	475	224	214	607
24	188	302	3,320	1,730	2,340	2,220	1,290	1,050	409	204	293	488
25	188	359	3,020	1,650	1,910	2,080	1,170	1,390	407	216	231	431
26	191	555	3,630	1,130	1,480	1,660	1,010	1,100	399	216	188	428
27	191	521	5,350	1,940	1,110	1,570	885	921	536	235	161	424
28	162	738	5,570	3,340	1,020	1,310	794	892	581	214	172	359
29	276	1,290	5,380	3,710	------	1,080	786	787	480	238	213	1,610
30	1,410	878	5,220	3,130	------	1,200	757	772	511	238	391	1,340
31	1,580	------	4,790	2,400	------	1,420	------	714	------	227	649	------
TOTAL	8,512	13,933	75,819	44,749	33,821	46,082	57,772	40,766	16,713	14,364	6,300	18,870
MEAN	275	464	2,446	1,444	1,208	1,487	1,926	1,315	557	463	203	629
MAX	1,580	1,290	6,170	3,710	3,340	2,980	3,860	4,980	1,370	2,570	649	2,020
MIN	149	252	446	654	643	645	757	714	298	204	94	304
(†)	59.1	51.3	41.4	44.7	46.1	45.4	55.6	59.2	69.6	71.3	76.3	64.2
MEAN‡	304	487	2,798	1,381	1,258	1,653	1,952	1,395	588	480	221	614
CFSM‡	.61	.98	5.63	2.78	2.53	3.33	3.93	2.81	1.18	.97	.44	1.24
IN.‡	.71	1.09	6.49	3.21	2.64	3.84	4.38	3.24	1.32	1.11	.51	1.38

CAL YR 1973 TOTAL 474,251 MEAN 1,299 MAX 6,170 MIN 149 MEAN‡ 1,368 CFSM‡ 2.75 IN‡ 37.36
WTR YR 1974 TOTAL 377,701 MEAN 1,035 MAX 6,170 MIN 94 MEAN‡ 1,095 CFSM‡ 2.20 IN‡ 29.91

† Diversion in cubic feet per second, from Westfield Little River for municipal supply of Springfield.
‡ Adjusted for diversion and for change in contents in Borden Brook, Cobble Mountain, and Knightville Reservoirs and Littleville Lake.

01184000 CONNECTICUT RIVER AT THOMPSONVILLE, CONN.

LOCATION.--Lat 41°59'14", long 72°36'21", Hartford County, on right bank just upstream from Enfield Dam, 1 mi (2 km) downstream from Thompsonville, 3 mi (5 km) downstream from Massachusetts-Connecticut State line, and at mile 68.2 (kilometre 109.7).

DRAINAGE AREA.--9,661 mi² (25,022 km²).

PERIOD OF RECORD.--July 1928 to current year.

GAGE.--Water-stage recorders on river and on canal of Connecticut Light and Power Co. Datum of gage is 38.48 ft (11.729 m) above mean sea level.

AVERAGE DISCHARGE.--46 years, 16,260 ft³/s (460.5 m³/s), 22.86 in/yr (581 mm/yr), adjusted for storage and diversion.

EXTREMES.--Current year: Maximum discharge, 99,400 ft³/s (2,820 m³/s) Dec. 23 (gage height, 7.00 ft or 2.134 m); minimum daily, 1,910 m³/s (54.1 m³/s) Aug. 11.

Period of record: Maximum discharge, 282,000 ft³/s (7,990 m³/s) Mar. 20, 1936 (gage height, 16.6 ft or 5.06 m, from floodmarks); minimum daily, 968 ft³/s (27.4 m³/s) Oct. 20, 1963.

REMARKS.--Records good. Discharge includes water diverted around station by canal of Connecticut Light & Power Co. Flow regulated by powerplants, by diversion from Chicopee River basin (see table below), and by First Connecticut and Second Connecticut Lakes, Lake Francis, Moore and Comerford Reservoirs, Quabbin Reservoir (see p. 214), and other reservoirs (combined usable capacity, about 107 billion cubic feet or 3.03 billion cubic meters). Records of chemical analyses and water temperature for the current year for this station and for station 01183750 (Connecticut River at Agawam, Mass.), 4.5 mi (7.2 km) upstream, are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 741: 1932. WSP 891: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4,250	10,900	15,400	47,900	32,600	18,500	16,900	38,200	23,400	5,420	5,300	7,460
2	5,380	13,000	14,500	39,400	30,400	17,600	17,300	47,400	24,400	8,270	6,210	5,360
3	6,320	14,900	12,400	34,000	22,500	16,900	18,300	49,200	20,900	10,600	6,210	7,090
4	7,710	13,900	10,800	26,100	20,600	15,600	22,500	47,700	19,500	11,500	2,960	13,900
5	7,750	11,600	12,000	21,800	19,300	17,700	42,100	43,100	17,100	9,130	5,000	15,200
6	9,360	11,600	15,400	19,600	16,600	29,100	69,200	37,100	15,600	19,600	7,180	14,500
7	10,700	10,200	17,800	19,200	17,100	40,400	74,300	36,500	13,800	19,000	7,270	14,800
8	11,500	7,910	17,500	17,500	16,000	44,900	62,100	30,500	13,000	17,700	6,410	8,550
9	9,440	6,760	17,200	15,900	16,000	48,600	55,900	26,500	10,100	13,900	5,960	6,200
10	7,760	7,300	21,400	14,600	15,100	42,400	49,800	26,800	7,050	12,000	2,440	7,770
11	8,640	4,890	21,700	15,000	14,400	30,700	41,900	31,400	10,000	12,200	1,910	7,070
12	7,090	5,090	20,600	19,300	14,200	24,800	42,200	35,200	10,900	13,000	3,170	7,980
13	7,030	6,320	17,400	13,300	15,700	21,200	36,500	46,300	9,700	11,300	3,340	8,170
14	4,840	6,380	17,400	11,200	16,100	17,900	34,400	59,200	6,650	6,750	3,820	7,140
15	5,780	5,850	18,900	12,000	15,900	17,500	41,300	55,300	6,960	6,580	3,840	5,870
16	6,740	6,550	21,100	13,900	14,400	15,700	62,000	46,700	6,400	9,260	2,990	6,770
17	5,910	11,500	20,300	14,500	13,100	27,500	66,800	37,300	8,830	9,240	2,870	6,240
18	5,710	12,300	18,500	13,600	11,400	41,700	60,800	33,600	12,400	7,870	2,160	6,060
19	5,910	14,500	13,700	12,300	12,600	32,200	51,800	30,000	13,300	7,750	3,580	6,360
20	7,440	11,900	13,200	11,700	14,000	26,500	45,200	26,000	13,400	6,730	5,920	6,130
21	3,800	8,360	28,100	11,000	14,000	26,200	41,300	22,500	13,600	6,210	3,940	5,440
22	3,110	8,430	84,300	15,700	15,800	32,900	39,200	20,700	13,000	6,950	4,000	8,350
23	5,930	5,940	94,300	18,700	24,100	28,100	37,000	17,600	10,800	7,250	4,820	12,000
24	6,860	9,260	79,000	20,200	34,500	24,300	42,300	15,500	7,900	6,970	5,290	12,100
25	8,310	10,200	65,400	21,200	32,200	24,200	50,200	29,700	8,270	6,880	2,950	11,800
26	6,310	10,000	52,900	21,400	26,000	24,000	53,900	35,100	8,530	6,430	3,160	10,400
27	4,510	12,000	57,300	21,600	22,400	22,900	51,400	34,800	6,480	5,330	3,210	8,320
28	4,800	12,700	76,500	34,100	19,600	21,200	43,500	35,400	7,660	3,050	3,550	7,490
29	6,530	15,000	80,100	44,700	------	19,000	36,200	36,100	7,670	4,550	4,680	13,400
30	10,500	15,300	70,400	44,900	------	17,800	31,900	30,900	7,340	6,130	5,590	16,700
31	14,500	------	59,000	35,600	------	16,300	------	23,700	------	6,370	8,640	------
TOTAL	220,420	300,560	1,084.7M	681,900	536,600	804,300	1,338.2M	1,086.0M	354,640	283,920	138,370	274,590
MEAN	7,110	10,020	34,990	22,000	19,160	25,950	44,610	35,030	11,820	9,159	4,464	9,153
MAX	14,500	15,300	94,300	47,900	34,500	48,600	74,300	59,200	24,400	19,600	8,640	16,700
MIN	3,110	4,890	10,800	11,000	11,400	15,600	16,900	15,500	6,400	3,050	1,910	5,360
(†)	476	409	163	25.9	0	97.2	33.2	346	460	426	432	495
MEAN‡	6,192	10,690	37,950	20,940	16,860	26,370	49,240	36,260	11,840	8,707	3,853	9,128
CFSM‡	.64	1.11	3.93	2.17	1.75	2.73	5.10	3.75	1.23	.90	.40	.94
IN.‡	.74	1.23	4.53	2.50	1.82	3.15	5.69	4.33	1.37	1.04	.46	1.05

CAL YR 1973 TOTAL 8,417,510 MEAN 23,060 MAX 97,400 MIN 2,080 MEAN‡ 23,670 CFSM‡ 2.45 IN‡ 33.27
WTR YR 1974 TOTAL 7,104,200 MEAN 19,460 MAX 94,300 MIN 1,910 MEAN‡ 19,860 CFSM‡ 2.06 IN‡ 27.91

M Expressed in thousands.

† Diversion, in cubic feet per second, from Chicopee River basin to Wachusett Reservoir.

‡ Adjusted for change in contents in all reservoirs from First Connecticut and Second Connecticut Lakes to Borden Brook and Cobble Mountain Reservoirs listed on page 214 and for diversion from Chicopee River basin.

01185100 FALL RIVER BELOW OTIS RESERVOIR, NEAR OTIS, MASS.

LOCATION.--Lat 42°09'42", long 73°03'48", Berkshire County, on right bank 0.4 mi (0.6 km) downstream from Otis Reservoir, 0.5 mi (0.8 km) upstream from mouth, and 2.6 mi (4.2 km) southeast of Otis.

DRAINAGE AREA.--16.5 mi² (42.7 km²).

PERIOD OF RECORD.--August 1969 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 1,260 ft (384 m) from topographic map.

AVERAGE DISCHARGE.--5 years, 38.2 ft³/s (1.082 m³/s).

EXTREMES.--Current year: Maximum discharge, 299 ft³/s (8.47 m³/s) Oct. 20 (gage height, 4.83 ft or 1.472 m); minimum daily, 0.97 ft³/s (0.027 m³/s) July 31.

Period of record: Maximum discharge, 422 ft³/s (12.0 m³/s) July 2, 1972 (gage height, 5.41 ft or 1.649 m); minimum daily, 0.68 ft³/s (0.019 m³/s) June 20, 1973.

REMARKS.--Records good. Flow regulated by Otis Reservoir (see p. 214).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.2	94	70	6.2	120	38	4.6	3.7	42	2.2	1.0	2.1
2	3.2	135	70	5.7	147	5.3	5.3	3.3	63	1.9	1.3	2.1
3	3.2	238	36	5.3	147	5.0	5.3	3.3	61	2.5	1.3	18
4	3.3	272	5.3	25	98	5.0	5.5	3.3	26	2.6	1.6	81
5	3.7	203	5.9	46	47	5.0	6.4	3.3	2.7	2.9	1.7	39
6	3.9	128	38	46	47	5.0	6.9	3.2	2.9	7.1	1.5	15
7	3.7	127	70	45	47	5.1	68	3.1	2.9	102	1.5	92
8	3.9	127	70	31	47	5.1	5.1	3.1	2.8	47	1.5	87
9	4.0	127	72	12	47	5.1	4.8	2.9	2.9	3.1	1.4	4.0
10	4.0	124	96	12	47	5.0	4.4	3.2	2.9	2.8	1.4	3.6
11	4.0	125	127	12	47	5.0	4.4	3.3	2.8	2.6	1.3	3.2
12	3.9	124	179	29	46	5.0	4.6	30	2.6	2.4	1.1	3.2
13	3.7	124	150	47	27	4.6	5.0	224	2.6	2.3	1.1	3.2
14	3.9	57	92	45	13	4.6	5.0	146	2.2	2.2	1.2	39
15	92	13	101	45	13	4.2	5.7	54	2.3	2.8	1.3	60
16	147	13	101	45	13	5.0	4.6	4.8	58	2.5	1.3	28
17	147	12	101	44	13	6.7	4.4	5.3	140	2.3	1.5	3.1
18	146	12	101	44	13	5.9	4.0	5.5	58	2.2	1.5	3.6
19	145	12	100	43	13	5.1	3.9	4.6	3.1	2.2	1.4	3.2
20	265	12	60	27	13	5.0	3.7	3.9	2.8	2.2	1.4	3.3
21	238	12	81	12	13	5.7	3.7	3.6	3.1	2.2	1.4	4.2
22	113	12	195	20	14	5.9	3.5	3.3	3.2	1.9	1.4	4.6
23	112	12	230	26	49	5.7	3.3	25	2.9	1.7	1.7	4.4
24	111	12	236	26	71	5.7	3.2	87	2.8	1.7	2.1	4.4
25	111	12	242	25	71	5.5	3.2	33	2.8	1.7	1.9	4.6
26	111	12	242	25	71	5.1	2.8	3.5	3.1	1.7	1.7	4.2
27	247	12	242	37	71	5.0	2.6	3.3	3.1	1.8	1.5	4.2
28	203	40	242	47	71	4.8	2.6	3.2	2.8	1.7	2.1	5.5
29	54	70	242	50	------	4.4	2.5	3.1	2.4	1.4	2.0	85
30	61	70	240	68	------	4.2	2.6	2.9	2.3	1.1	2.7	139
31	58	------	114	108	------	4.6	------	3.2	------	.97	2.4	------
TOTAL	2,412.6	2,343	3,951.2	1,059.2	1,436	191.3	191.6	684.9	512.0	215.67	48.2	753.7
MEAN	77.8	78.1	127	34.2	51.3	6.17	6.39	22.1	17.1	6.96	1.55	25.1
MAX	265	272	242	108	147	38	68	224	140	102	2.7	139
MIN	3.2	12	5.3	5.3	13	4.2	2.5	2.9	2.2	.97	1.0	2.1

CAL YR 1973 TOTAL 16,190.46 MEAN 44.4 MAX 272 MIN .68
WTR YR 1974 TOTAL 13,799.37 MEAN 37.8 MAX 272 MIN .97

01185500 WEST BRANCH FARMINGTON RIVER NEAR NEW BOSTON, MASS.

LOCATION.--Lat 42°04'45", long 73°04'24", Berkshire County, on left bank 5 ft (1.5 m) downstream from highway bridge, 0.3 mi (0.5 km) downstream from Clam River, 1 mi (1.6 km) south of New Boston, and at mile 65.0 (kilometre 104.6).

DRAINAGE AREA.--92.0 mi² (238.3 km²).

PERIOD OF RECORD.--May 1913 to current year. Prior to October 1948, published as Farmington River near New Boston.

GAGE.--Water-stage recorder. Datum of gage is 758.21 ft (231.102 m) above mean sea level.

AVERAGE DISCHARGE.--61 years, 179 ft³/s (5.069 m³/s), 26.42 in/yr (671 mm/yr), adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 5,390 ft³/s (153 m³/s) Dec. 21 (gage height, 8.42 ft or 2.566 m); minimum daily, 17 ft³/s (0.48 m³/s) Aug. 22.

Period of record: Maximum discharge, 34,300 ft³/s (971 m³/s) Aug. 19, 1955 (gage height, 14.06 ft or 4.285 m), from rating curve extended above 9,600 ft³/s (272 m³/s) on basis of slope-area measurement of peak flow; minimum daily, 2.4 ft³/s (0.068 m³/s) Aug. 20, 21, 1957.

REMARKS.--Records good except those for winter period, which are fair. Flow regulated by Otis Reservoir 7.0 mi (11.3 km) upstream on Fall River (see p. 214). High flow slightly affected by retarding reservoirs since 1966.

REVISIONS (WATER YEARS).--WSP 641: 1924(M). WSP 756: Drainage area. WSP 781: 1928(M). WSP 1231: 1914.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	37	414	197	325	478	236	257	346	242	62	19	65
2	36	388	172	268	419	195	300	236	260	54	19	63
3	34	395	137	222	389	170	376	202	195	90	18	131
4	29	397	92	207	310	192	482	216	151	107	20	525
5	30	315	191	202	220	328	610	177	98	92	57	281
6	29	224	446	195	210	315	590	154	82	305	36	144
7	27	282	340	187	210	277	473	158	72	210	29	250
8	25	280	257	156	200	254	325	141	62	157	27	242
9	25	270	453	130	190	222	297	128	57	77	25	103
10	23	256	645	175	190	200	254	180	52	61	24	78
11	24	225	491	190	200	172	251	208	46	52	21	62
12	24	181	433	200	190	159	332	270	43	46	20	51
13	23	171	353	190	175	135	406	961	48	40	19	47
14	27	121	509	180	150	129	367	594	42	38	20	125
15	86	60	455	250	140	128	560	383	39	51	19	137
16	159	66	348	220	130	204	458	245	75	45	18	98
17	161	65	336	200	130	645	340	213	248	39	19	52
18	162	61	290	170	135	417	273	190	169	37	29	76
19	163	60	259	230	140	321	248	159	80	36	23	66
20	272	58	233	200	200	276	216	133	64	34	20	58
21	280	55	2,410	190	190	414	185	116	91	30	18	111
22	133	61	1,290	400	362	540	166	107	115	27	17	152
23	132	64	750	350	772	384	150	119	85	25	24	109
24	129	61	573	400	525	437	141	195	71	24	115	86
25	129	112	540	320	393	389	139	187	64	25	61	75
26	128	113	648	245	307	300	129	131	92	24	40	68
27	245	104	1,170	509	260	246	122	119	92	27	34	62
28	241	230	1,190	665	236	213	113	109	87	25	42	70
29	79	307	846	739	------	185	107	101	75	23	39	366
30	452	236	700	563	------	177	106	96	66	22	86	376
31	386	------	497	515	------	236	------	86	------	21	96	------
TOTAL	3,730	5,632	17,251	8,993	7,451	8,496	8,773	6,660	2,963	1,906	1,054	4,129
MEAN	120	188	556	290	266	274	292	215	98.8	61.5	34.0	138
MAX	452	414	2,410	739	772	645	610	961	260	305	115	525
MIN	23	55	92	130	130	128	106	86	39	21	17	47
MEAN†	54.2	133	552	300	258	331	355	228	95.8	57.2	34.0	145
CFSM†	.59	1.45	6.00	3.26	2.80	3.60	3.86	2.48	1.04	.62	.37	1.58
IN.†	.68	1.62	6.92	3.77	2.93	4.14	4.31	2.85	1.16	.72	.43	1.76

CAL YR 1973 TOTAL 90,356 MEAN 248 MAX 2,410 MIN 23 MEAN† 247 CFSM† 2.68 IN† 36.48
WTR YR 1974 TOTAL 77,038 MEAN 211 MAX 2,410 MIN 17 MEAN† 212 CFSM† 2.30 IN† 31.28

† Adjusted for change in contents in Otis Reservoir.

Reservoirs in Connecticut River basin

01127850; 01128000. **FIRST CONNECTICUT AND SECOND CONNECTICUT LAKES** on Connecticut River are operated as a unit for storage of water for power and are used for recreation. The downstream order and usable capacity of each are as follows: Second Lake, 12 mi (19 km) northeast of Pittsburg, N.H., 506,000,000 ft^3 (14,300,000 m^3); First Lake, 5.6 mi (9.0 km) northeast of Pittsburg, N.H., 3,330,000,000 ft^3 (94,300,000 m^3). Records furnished by New England Power Co.

01129000. **LAKE FRANCIS** on Connecticut River at Pittsburg, N.H., completed in March 1940, used for storage of water for power and for recreation, has usable capacity of 4,326,000,000 ft^3 (122,500,000 m^3). Records furnished by New Hampshire Water Resources Board.

01132000; 01132500. **MOORE AND COMERFORD RESERVOIRS** on Connecticut River are operated as a unit for storage of water for hydroelectric power development and are used for recreation. The downstream order and usable capacity of each are as follows: Moore Reservoir, 4.5 mi (7.2 km) northwest of Littleton, N.H., filled in April 1956, 4,970,000,000 ft^3 (141,000,000 m^3); Comerford Reservoir, 5 mi (8 km) northeast of Monroe, N.H., completed in 1930, 1,279,000,000 ft^3 (36,220,000 m^3). Records furnished by New England Power Co.

01141000. **UNION VILLAGE RESERVOIR** on Ompompanoosuc River, 0.3 mi (0.5 km) north of Union Village, Vt., completed in 1949 for flood control, has usable capacity of 1,660,000,000 ft^3 (47,000,000 m^3). Records furnished by Corps of Engineers.

01148000; 01150000. **LAKES AND PONDS IN MASCOMA RIVER BASIN** are operated as a unit for storage of water for power and are used for recreation. The reservoirs and usable capacity of each are as follows: 01148000 Goose Pond, 5.2 mi (8.4 km) northeast of Mascoma, N.H., 509,000,000 ft^3 (14,400,000 m^3); Grafton Pond, 8.5 mi (13.7 km) southeast of Mascoma, 144,000,000 ft^3 (4,080,000 m^3); Crystal Lake, 5.8 mi (9.3 km) southeast of Mascoma, 75,000,000 ft^3 (2,100,000 m^3); 01150000 Mascoma Lake at Mascoma, 337,000,000 ft^3(9,540,000 m^3); total usable capacity of the four reservoirs, 1,060,000,000 ft^3 (30,000,000 m^3). Records furnished by New Hampshire Water Resources Board.

01151400. **NORTH HARTLAND RESERVOIR** on Ottauquechee River at North Hartland, Vt., completed in 1961, used for flood control and recreation, has usable capacity of 3,110,000,000 ft^3 (88,100,000 m^3). Records furnished by Corps of Engineers.

01152000. **SUNAPEE LAKE** on Sugar River at Sunapee, N.H., used for recreation and storage of water for power, has usable capacity of 862,000,000 ft^3 (24,400,000 m^3). Records collected by Geological Survey.

01152900. **NORTH SPRINGFIELD RESERVOIR** on Black River at North Springfield, Vt., completed in 1960, used for flood control and recreation, has usable capacity of 2,230,000,000 ft^3 (63,200,000 m^3). Records furnished by Corps of Engineers.

01155400. **BALL MOUNTAIN RESERVOIR** on West River, 2 mi (3.2 km) north of Jamaica, Vt., completed in 1961, used for flood control and recreation, has usable capacity of 2,380,000,000 ft^3 (67,400,000 m^3). Records furnished by Corps of Engineers.

01155900. **TOWNSHEND RESERVOIR** on West River, 1.8 mi (2.9 km) northwest of Townshend, Vt., completed in 1961, used for flood control and recreation, has usable capacity of 1,460,000,000 ft^3 (41,300,000 m^3). Records furnished by Corps of Engineers.

01157500. **SURRY MOUNTAIN LAKE** on Ashuelot River, 4.5 mi (7.2 km) north of Keene, N.H., completed in 1942, used for flood control and recreation, has usable capacity of 1,420,000,000 ft^3 (40,200,000 m^3). Records furnished by Corps of Engineers.

01158550. **OTTER BROOK LAKE** on Otter Brook, 2.5 mi (4.0 km) northeast of Keene, N.H., completed in 1958, used for flood control and recreation, has usable capacity of 798,000,000 ft^3 (22,600,000 m^3). Records furnished by Corps of Engineers.

01163500. **BIRCH HILL RESERVOIR** on Millers River, 1 mi (1.6 km) east of South Royalston, Mass., completed in 1941 for flood control, has usable capacity of 2,180,000,000 ft^3 (61,700,000 m^3). Records furnished by Corps of Engineers.

01164500. **TULLY RESERVOIR** on East Branch Tully River, 3.5 mi (5.6 km) north of Athol, Mass., completed in 1948 for flood control, has usable capacity of 958,000,000 ft^3 (27,100,000 m^3). Records furnished by Corps of Engineers.

01167490; 01168000. **SOMERSET AND HARRIMAN RESERVOIRS** in Deerfield River basin are operated as a unit for storage of water for hydroelectric power development and are used for recreation. The downstream order and usable capacity of each are as follows: Somerset Reservoir on East Branch Deerfield River, 2.5 mi (4.0 km) northeast of Somerset, Vt., completed in 1913, 2,500,000,000 ft^3 (71,000,000 m^3); Harriman Reservoir on Deerfield River at Davis Bridge, Vt., completed in 1924, 5,060,000,000 ft^3 (143,000,000 m^3). Records furnished by New England Power Co.

01172400. **BARRE FALLS RESERVOIR** on Ware River, 4 mi (6 km) east of Barre, Mass., completed in 1958 for flood control, has usable capacity of 1,050,000,000 ft^3 (29,700,000 m^3). Records furnished by Corps of Engineers.

01175000. **QUABBIN RESERVOIR** on Swift River, 3.2 mi (5.1 km) east of Belchertown, Mass., completed in August 1939 for storage of water for municipal supply, has usable capacity of 53,800,000,000 ft^3 (1,520,000,000 m^3). Records furnished by Water Division, Metropolitan District Commission.

01176410. **CONANT BROOK RESERVOIR** in Chicopee River basin, 1.5 mi (2.4 km) southeast of South Monson, Mass., completed in September 1966 for flood control, has usable capacity of 163,000,000 ft^3 (4,620,000 m^3). Records furnished by Corps of Engineers.

01176500. **LUDLOW RESERVOIR** in Chicopee River basin, 3.2 mi (5.1 km) northwest of Three Rivers, Mass., completed in 1875 for storage of water for municipal supply, has usable capacity of 201,000,000 ft^3 (5,690,000 m^3). Records furnished by Board of Water Commissioners, Springfield, Mass.

01179000. **KNIGHTVILLE RESERVOIR** on Westfield River, 4 mi (6 km) north of Huntington, Mass., completed in 1941 for flood control, has usable capacity of 2,130,000,000 ft^3 (60,300,000 m^3). Records furnished by Corps of Engineers.

01180450. **LITTLEVILLE LAKE** on Middle Branch Westfield River, 2 mi (3 km) north of Huntington, Mass., completed in 1965, used for flood control, water supply, and recreation, has usable capacity of 1,410,000,000 ft^3 (39,900,000 m^3). Records furnished by Corps of Engineers.

01181900; 01182500. **BORDEN BROOK AND COBBLE MOUNTAIN RESERVOIRS** in Westfield Little River basin are operated as a unit for storage of water for municipal supply and for hydroelectric power development. The downstream order and usable capacity of each are as follows: Borden Brook Reservoir on Borden Brook, 3.5 mi (5.6 km) south of Blandford, Mass., completed in 1909, 344,000,000 ft^3 (9,740,000 m^3); Cobble Mountain Reservoir on Westfield Little River, 6.5 mi (10.5 km) west of Westfield, Mass., completed in 1931, 3,050,000,000 ft^3 (86,400,000 m^3). Records furnished by Board of Water Commissioners, Springfield, Mass.

01185000. **OTIS RESERVOIR** in Farmington River basin, 3 mi (5 km) southeast of Otis, Mass., completed in 1865, used for storage of water for power and for recreation, has usable capacity of 780,000,000 ft^3 (22,000,000 m^3). Records furnished by Massachusetts Department of Natural Resources, Division of Forests and Parks.

Reservoirs in Connecticut River basin--Continued

MONTHEND USABLE CONTENTS, IN MILLIONS OF CUBIC FEET, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

Date	First and Second Connecticut Lakes	Lake Francis	Moore and Comerford Reservoirs	Union Village Reservoir	Lakes and Ponds in Mascoma River basin	North Hartland Reservoir
Sept. 30, 1973	2,964.7	3,342.4	5,546.5	1.5	875.0	22.5
Oct. 31	2,478.3	2,669.0	4,733.1	1.5	798.3	26.4
Nov. 30	2,655.2	2,798.2	6,019.7	9.8	694.0	26.4
Dec. 31	3,371.3	3,662.1	5,912.6	14.0	912.7	26.4
Jan. 31, 1974	2,339.0	2,738.0	6,090.4	15.7	730.3	30.8
Feb. 28	948.7	1,395.2	4,016.6	14.7	737.5	27.0
Mar. 31	1,085.0	1,493.6	1,672.7	16.4	890.9	26.4
Apr. 30	3,180.9	3,701.9	5,372.4	6.7	1,096.8	22.3
May 31	3,449.8	4,273.2	5,722.2	4.7	1,095.6	127.0
June 30	3,394.8	4,065.2	5,925.6	2.2	1,109.7	121.0
July 31	3,377.0	3,915.0	5,677.5	1.8	1,013.1	133.0
Aug. 31	3,146.4	3,726.8	5,249.6	1.9	944.7	124.0
Sept. 30	2,785.1	3,643.8	5,636.5	2.8	959.4	124.0

Date	Sunapee Lake	North Springfield Reservoir	Ball Mountain Reservoir	Townshend Reservoir	Surry Mountain Lake	Otter Brook Lake
Sept. 30, 1973	384	24.0	82.0	22.0	16.4	32.6
Oct. 31	330	26.9	17.9	42.2	31.9	35.8
Nov. 30	282	28.4	7.6	41.8	91.4	34.8
Dec. 31	583	26.9	2.7	49.9	522.4	163.9
Jan. 31, 1974	372	29.1	11.8	41.1	99.7	47.7
Feb. 28	357	31.3	13.1	38.6	86.0	41.8
Mar. 31	466	26.2	44.9	39.4	70.6	32.3
Apr. 30	508	28.4	126.8	39.4	75.6	33.7
[illegible] 31	638	26.9	97.3	36.2	75.6	33.7
[illegible]e 30	592	24.7	111.8	38.3	62.2	33.0
July 31	493	26.2	108.2	35.5	57.4	32.3
Aug. 31	364	24.7	166.3	37.6	57.4	33.0
Sept. 30	364	34.9	176.8	42.9	65.7	34.0

Date	Birch Hill Reservoir	Tully Reservoir	Somerset and Harriman Reservoirs	Barre Falls Reservoir	Quabbin Reservoir†	Conant Brook Reservoir
Sept. 30, 1973	4.5	48.5	4,611.5	2.2	45,693	0.1
Oct. 31	15.0	22.5	4,402.4	3.4	44,386	.1
Nov. 30	14.2	23.0	4,673.5	3.1	43,361	.1
Dec. 31	114.4	109.8	6,456.0	4.4	45,465	.1
Jan. 31, 1974	38.4	19.5	5,327.6	36.5	46,811	.2
Feb. 28	26.7	19.0	3,474.9	20.7	47,944	.1
Mar. 31	22.3	62.9	4,218.4	4.7	49,569	.1
Apr. 30	9.5	62.9	6,552.3	3.7	50,912	.1
May 31	9.0	64.0	6,994.5	3.7	51,403	.2
June 30	2.2	58.5	6,922.2	2.9	50,551	.1
July 31	2.7	56.3	6,397.0	2.2	49,488	.1
Aug. 31	7.5	48.5	6,084.1	2.4	48,175	.1
Sept. 30	5.1	62.9	5,520.4	33.8	47,533	.2

Date	Ludlow Reservoir	Knightville Reservoir	Littleville Lake	Borden Brook and Cobble Mountain Reservoirs	Otis Reservoir
Sept. 30, 1973	174.1	.1	417.2	2,315.6	676.5
Oct. 31	172.2	5.3	431.5	2,217.5	499.5
Nov. 30	174.1	.8	428.9	2,150.5	358.2
Dec. 31	200.5	118.4	471.0	2,824.0	346.0
Jan. 31, 1974	200.5	14.3	439.3	2,673.7	373.6
Feb. 28	197.7	17.9	427.6	2,690.2	355.1
Mar. 31	200.5	86.0	427.6	2,946.3	506.5
Apr. 30	200.5	.7	423.7	2,959.9	668.8
May 31	197.6	.5	423.7	3,015.4	703.3
June 30	188.5	.5	421.1	2,916.8	695.7
July 31	184.9	.2	417.2	2,775.2	684.2
Aug. 31	172.2	.6	422.4	2,613.3	684.2
Sept. 30	200.5	.8	430.2	2,398.9	703.3

† Affected by diversion from Ware River and diversion to Wachusett Reservoir and Chicopee Valley aqueduct.

01197000 EAST BRANCH HOUSATONIC RIVER AT COLTSVILLE, MASS.

LOCATION.--Lat 42°28'10", long 73°11'49", Berkshire County, on right bank 40 ft (12 m) downstream from Hubbard Avenue Bridge at Coltsville, 1.2 mi (1.9 km) upstream from Unkamet Brook, and 2 mi (3 km) northeast of Pittsfield.

DRAINAGE AREA.--57.1 mi^2 (147.9 km^2).

PERIOD OF RECORD.--March 1936 to current year. Prior to October 1945, published as Housatonic River at Coltsville.

GAGE.--Water-stage recorder. Datum of gage is 993.49 ft (302.816 m) above mean sea level.

AVERAGE DISCHARGE.--38 years, 112 ft^3/s (3.172 m^3/s), 26.64 in/yr (677 mm/yr), adjusted for diversion.

EXTREMES.--Current year: Maximum discharge, 3,490 ft^3/s (98.8 m^3/s) Dec. 21 (gage height, 6.27 ft or 1.911 m); minimum daily, 19 ft^3/s (0.54 m^3/s) Aug. 16.

Period of record: Maximum discharge, 6,400 ft^3/s (181 m^3/s) Sept. 21, 1938 (gage height, 10.80 ft or 3.292 m), from rating curve extended above 2,300 ft^3/s (65.1 m^3/s) on basis of computation of peak flow over dam; minimum daily, 4.4 ft^3/s (0.12 m^3/s) Aug. 15, 1936.

Maximum discharge since at least 1755, that of Sept. 21, 1938.

REMARKS.--Records good except those for periods of no gage-height record, which are fair. Flow regulated by powerplants above station and, since 1949, by Cleveland Brook Reservoir (usable capacity, 214,000,000 ft^3 or 6,060,000 m^3) 5.4 mi (8.7 km) upstream; regulation greater prior to 1955. Diversion above station from Cleveland Brook Reservoir for municipal supply of Pittsfield since May 1950; see table below for figures of diversion.

REVISIONS (WATER YEARS).--WSP 851: 1936(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26	146	88	250	190	108	108	220	244	45	34	72
2	27	133	66	210	150	105	146	180	230	41	30	70
3	29	100	60	190	130	90	205	135	142	176	28	85
4	30	77	61	170	125	104	354	120	105	170	31	196
5	32	70	122	150	94	220	596	115	88	118	44	157
6	32	62	230	130	93	207	454	96	77	336	38	85
7	30	58	150	120	105	141	253	146	66	229	32	86
8	30	57	97	100	96	130	196	122	61	97	29	94
9	30	57	216	85	92	106	177	94	57	69	28	71
10	30	53	275	95	82	93	165	154	52	60	26	59
11	30	46	181	110	87	78	172	227	49	54	22	56
12	29	47	129	100	86	77	230	185	48	50	22	56
13	29	44	116	90	86	64	270	655	56	45	22	74
14	28	42	196	85	91	63	350	336	46	42	21	161
15	29	42	178	90	82	65	700	200	40	78	20	111
16	30	48	117	85	74	98	400	156	42	66	19	74
17	30	50	104	74	75	351	250	184	128	46	24	63
18	33	42	96	76	71	216	210	174	147	41	28	64
19	38	41	91	90	73	156	170	126	65	41	26	68
20	40	41	173	88	101	127	150	101	59	41	22	75
21	37	39	2,020	86	100	167	135	92	74	36	20	127
22	40	40	747	150	202	231	125	87	82	35	20	175
23	40	41	355	200	532	207	120	137	55	33	23	123
24	40	39	227	190	286	236	140	212	48	33	40	81
25	40	63	197	150	183	223	125	306	47	42	27	71
26	41	87	1,010	150	125	169	115	189	69	39	24	74
27	40	71	1,070	250	99	138	105	139	75	37	23	70
28	45	128	625	400	97	124	95	119	66	39	43	84
29	50	185	360	350	------	111	90	102	51	49	62	206
30	187	119	310	270	------	100	85	99	46	45	152	177
31	170	------	270	230	------	102	------	95	------	41	141	------
TOTAL	1,342	2,068	9,937	4,814	3,607	4,407	6,691	5,303	2,415	2,274	1,121	2,965
MEAN	43.3	68.9	321	155	129	142	223	171	80.5	73.4	36.2	98.8
MAX	187	185	2,020	400	532	351	700	655	244	336	152	206
MIN	26	39	60	74	71	63	85	87	40	33	19	56
(†)	13.1	17.5	13.1	15.0	13.8	12.3	12.2	15.9	13.1	12.4	16.4	13.5

CAL YR 1973 TOTAL 50,182 MEAN 137 MAX 2,020 MIN 25 MEAN‡ 151 CFSM‡ 2.64 IN‡ 35.95
WTR YR 1974 TOTAL 46,944 MEAN 129 MAX 2,020 MIN 19 MEAN‡ 143 CFSM‡ 2.50 IN‡ 33.92

PEAK DISCHARGE (BASE, 1,150 ft^3/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-21	0930	6.27	3,490				
12-26	2045	5.00	1,700				

† Diversion, in cubic feet per second, from Cleveland Brook Reservoir for municipal supply of Pittsfield; records furnished by city of Pittsfield.

‡ Adjusted for diversion.

NOTE.--No gage-height record Dec. 29 to Feb. 4, Apr. 12 to May 6.

HOUSATONIC RIVER BASIN

01197300 MARSH BROOK AT LENOX, MASS.

LOCATION.--Lat 42°20'59", long 73°17'56", Berkshire County, on left bank 15 ft (5 m) downstream from culvert on Hawthorne Street and 1.0 mi (1.6 km) southwest of Lenox.

DRAINAGE AREA.--2.19 mi² (5.67 km²).

PERIOD OF RECORD.--December 1962 to September 1974 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 990 ft (302 m) from topographic map.

AVERAGE DISCHARGE.-11 years (1963-74), 4.83 ft³/s (0.137 m³/s), 29.95 in/yr (761 mm/yr).

EXTREMES.--Current year: Maximum discharge, 20 ft³/s (0.57 m³/s) Dec. 21 (gage height, 3.70 ft or 1.128 m), from rating curve extended above 9.8 ft³/s (0.28 m³/s); maximum gage height, 4.24 ft (1.292 m) Jan. 13 (backwater from ice); minimum discharge, 0.18 ft³/s (0.005 m³/s) Aug. 11, 12.
Period of record: Maximum discharge, about 150 ft³/s (4.25 m³/s) Feb. 3, 1973; maximum gage height, 5.18 ft (1.579 m) Feb. 3, 1973 (backwater from ice); no flow at times during 1963, 1964, 1965, 1970, and 1972.

REMARKS.--Records fair. Recording rain gage at station since May 1963 (no winter records).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.6	6.0	2.8	12	9.0	7.7	9.0	8.1	9.0	1.7	.68	2.4
2	1.9	5.2	2.4	11	8.0	7.9	9.6	6.3	7.0	1.6	1.2	2.2
3	2.0	3.6	2.3	10	7.0	7.3	9.4	5.4	5.4	5.0	.59	2.4
4	2.0	2.8	2.1	10	6.2	7.5	10	5.5	4.3	4.0	.64	3.0
5	1.6	2.3	6.7	9.6	5.6	8.5	13	5.0	3.6	8.0	1.0	2.2
6	1.5	2.6	10	9.0	5.3	8.1	14	4.5	3.1	10	1.4	1.7
7	1.5	2.2	8.8	8.6	5.1	7.5	11	5.2	2.7	6.0	1.2	2.0
8	1.9	2.0	8.1	7.5	5.0	7.3	10	4.7	2.4	4.0	.73	1.9
9	1.8	1.8	10	6.0	4.8	7.2	9.8	4.2	2.2	2.9	.68	1.8
10	1.3	1.6	11	6.5	4.6	7.0	9.2	5.8	2.1	2.3	.59	1.7
11	1.3	1.5	10	7.5	4.4	6.7	9.8	6.0	2.0	2.0	.49	1.5
12	1.2	1.4	8.1	6.8	4.0	6.1	11	6.7	2.5	1.8	.44	1.3
13	1.5	1.4	7.5	6.0	4.0	6.0	10	14	2.2	1.6	.78	2.1
14	2.4	1.3	8.8	5.4	4.2	5.7	9.0	12	2.0	1.5	1.0	3.3
15	1.7	1.3	8.6	5.1	4.0	5.5	15	9.8	1.7	3.0	.64	2.6
16	1.4	1.7	7.7	5.0	3.8	7.9	12	9.4	2.0	2.3	.90	2.0
17	1.1	1.4	8.3	4.5	3.7	13	10	8.8	4.0	1.8	1.3	1.6
18	.90	1.3	8.5	4.0	3.6	10	9.2	7.3	3.1	1.6	1.6	1.9
19	1.1	1.2	7.9	5.0	3.6	9.2	8.8	6.5	2.5	1.6	1.3	1.6
20	1.3	1.2	7.3	5.4	3.8	8.6	8.1	5.5	2.6	1.4	1.3	2.5
21	1.3	.97	14	4.5	4.5	12	7.3	5.0	4.0	1.2	.64	4.0
22	1.3	1.4	16	6.4	11	14	7.2	5.0	3.5	1.8	.27	4.2
23	1.3	1.8	15	8.5	15	12	7.7	7.0	2.5	1.1	.54	2.5
24	1.3	1.6	13	9.2	12	13	7.5	10	2.0	1.6	1.3	2.1
25	1.3	2.4	11	8.6	10	11	7.3	13	2.1	1.6	1.1	2.0
26	1.3	2.4	13	8.1	9.0	9.6	6.7	8.0	3.0	1.6	.97	2.1
27	1.3	2.2	16	10	8.2	9.0	6.1	7.0	2.5	1.6	.73	2.0
28	1.3	6.1	17	13	7.9	8.3	6.3	6.0	2.2	1.3	1.6	3.0
29	2.0	5.5	16	13	-------	7.7	6.1	6.0	1.9	1.0	2.2	5.8
30	7.0	3.3	14	12	-------	7.7	6.7	5.5	1.7	.78	4.5	3.3
31	5.0	-------	13	10	-------	8.1	-------	5.2	-------	.40	3.3	-------
TOTAL	55.40	71.47	304.9	248.2	177.3	267.1	276.8	218.4	91.8	78.08	35.61	72.7
MEAN	1.79	2.38	9.84	8.01	6.33	8.62	9.23	7.05	3.06	2.52	1.15	2.42
MAX	7.0	6.1	17	13	15	14	15	14	9.0	10	4.5	5.8
MIN	.90	.97	2.1	4.0	3.6	5.5	6.1	4.2	1.7	.40	.27	1.3
CFSM	.82	1.09	4.49	3.66	2.89	3.94	4.21	3.22	1.40	1.15	.53	1.11
IN.	.94	1.21	5.18	4.22	3.01	4.54	4.70	3.71	1.56	1.33	.60	1.23

CAL YR 1973 TOTAL 2,253.53 MEAN 6.17 MAX 70 MIN .78 CFSM 2.82 IN 38.28
WTR YR 1974 TOTAL 1,897.76 MEAN 5.20 MAX 17 MIN .27 CFSM 2.37 IN 32.24

PEAK DISCHARGE (BASE, 45 ft³/s).-No peak above base.

NOTE.--No gage-height record Oct. 21 to Nov. 18, May 20 to July 18.

01197500 HOUSATONIC RIVER NEAR GREAT BARRINGTON, MASS.

LOCATION.--Lat 42°13'55", long 73°21'19", Berkshire County, on left bank at upstream side of highway bridge at Van Deusenville, 0.5 mi (0.8 km) upstream from Williams River and 2 mi (3 km) north of Great Barrington.

DRAINAGE AREA.--280 mi² (725 km²).

PERIOD OF RECORD.--May 1913 to current year.

GAGE.--Water-stage recorder. Datum of gage is 683.04 ft (208.191 m) above mean sea level. Prior to Oct. 1, 1931, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--61 years, 518 ft³/s (14.67 m³/s), 25.12 in/yr (638 mm/yr).

EXTREMES.--Current year: Maximum discharge, 5,910 ft³/s (167 m³/s) Dec. 22 (gage height, 9.27 ft or 2.825 m); minimum daily, 113 ft³/s (3.20 m³/s) Aug. 21.

Period of record: Maximum discharge, 12,200 ft³/s (346 m³/s) Jan. 1, 1949 (gage height, 12.08 ft or 3.682 m), from rating curve extended above 5,300 ft³/s (150 m³/s) on basis of computations of flow over dams at gage heights 11.72 and 12.08 ft (3.572 and 3.682 m); minimum daily, 1.0 ft³/s (0.028 m³/s) Oct. 18, 1914.

REMARKS.--Records good. Regulation at low flow by powerplants above station. High flow slightly affected by retarding reservoir since 1973.

REVISIONS (WATER YEARS).--WSP 415: 1913-14. WSP 781: 1928(M). WSP 1051: 1928, 1933. WSP 1301: 1914-15(M), 1917-27(M), 1929-31(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	164	615	532	1,710	1,140	730	770	811	790	224	154	434
2	166	665	426	1,480	957	714	744	939	1,210	217	152	322
3	171	513	367	1,260	811	660	948	730	1,030	414	147	351
4	187	343	352	1,150	786	645	1,150	691	719	677	145	744
5	198	324	420	1,010	722	819	1,520	680	542	548	195	733
6	212	306	943	687	645	1,000	1,940	559	464	748	188	497
7	206	301	1,040	762	667	939	1,810	608	410	798	164	414
8	193	273	770	860	637	824	1,480	652	367	553	150	423
9	193	277	714	510	601	746	1,230	573	323	361	143	350
10	187	266	1,370	560	539	675	1,130	608	306	241	141	288
11	174	254	1,350	667	493	573	1,060	913	294	245	131	250
12	171	240	1,050	637	476	526	1,260	913	277	225	117	226
13	171	243	824	550	474	462	1,410	2,060	287	206	117	219
14	174	243	922	540	487	426	1,440	2,210	274	194	130	508
15	168	240	1,160	552	450	415	1,910	1,920	258	250	124	567
16	170	262	965	532	415	468	2,150	1,570	242	327	125	399
17	17[illegible]	281	734	432	404	1,340	1,940	1,260	277	260	143	316
18	177	268	637	400	383	1,470	1,570	1,220	442	220	160	295
19	190	250	637	520	319	1,150	1,260	1,030	389	204	149	276
20	199	[illegible]	660	546	500	913	1,030	826	296	202	140	249
21	198	[illegible]	2,620	508	552	913	922	698	355	189	113	427
22	190	229	5,670	754	730	1,440	819	631	451	176	115	772
23	186	226	4,670	904	1,930	1,430	738	611	367	165	116	647
24	180	229	2,700	1,000	1,960	1,330	811	742	291	158	176	467
25	177	264	1,760	913	1,560	1,370	770	1,070	259	159	205	373
26	174	329	1,780	778	1,070	1,160	691	1,190	295	171	159	354
27	174	347	2,570	1,010	828	965	622	998	319	168	142	334
28	174	444	3,650	1,600	730	811	566	798	316	162	162	321
29	174	738	3,350	1,770	------	706	513	685	277	165	213	702
30	404	698	2,550	1,630	------	652	474	622	252	190	446	802
31	770	------	2,050	1,310	------	698	------	577	------	179	634	------
TOTAL	6,448	10,180	49,231	27,546	21,264	26,974	34,798	29,427	12,382	8,992	5,404	13,074
MEAN	208	339	1,588	889	759	870	1,160	949	413	290	174	436
MAX	770	738	5,670	1,770	1,960	1,470	2,150	2,210	1,210	798	634	802
MIN	164	226	352	400	319	415	474	559	242	158	113	219
CFSM	.74	1.21	5.67	3.18	2.71	3.11	4.14	3.39	1.48	1.04	.62	1.56
IN.	.86	1.35	6.54	3.66	2.83	3.58	4.62	3.91	1.65	1.19	.72	1.74

CAL YR 1973 TOTAL 265,923 MEAN 729 MAX 5,670 MIN 146 CFSM 2.60 IN 35.33
WTR YR 1974 TOTAL 245,720 MEAN 673 MAX 5,670 MIN 113 CFSM 2.40 IN 32.65

PEAK DISCHARGE (BASE, 2,400 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-22	0300	9.27	5,910				
12-28	1515	7.74	3,810				

01329000 BATTEN KILL AT ARLINGTON, VT.

LOCATION.--Lat 43°04'38", long 73°09'26", Bennington County, on left bank 5 ft (1.5 m) upstream from bridge on Highway 313 at Arlington and 0.9 mi (1.4 km) downstream from Warm Brook.

DRAINAGE AREA.--152 mi² (394 km²).

PERIOD OF RECORD.--October 1928 to current year.

GAGE.--Water-stage recorder. Datum of gage is 597.68 ft (182.173 m) above mean sea level, unadjusted. Prior to Nov. 18, 1941, nonrecording gage at downstream side of bridge at same datum.

AVERAGE DISCHARGE.--46 years, 331 ft³/s (9.374 m³/s), 29.57 in/yr (751 mm/yr).

EXTREMES.--Current year: Maximum discharge, 3,820 ft³/s (108 m³/s) Dec. 27 (gage height, 8.09 ft or 2.466 m); minimum, 71 ft³/s (2.01 m³/s) Oct. 2.

Period of record: Maximum discharge, 11,100 ft³/s (314 m³/s) Mar. 18, 1936 (gage height, 11.3 ft or 3.44 m, from floodmarks, present site), from rating curve extended above 5,200 ft³/s (147 m³/s) on basis of slope-area measurement at gage height 10.8 ft (3.29 m) and computation of peak flow over dam; minimum, 37 ft³/s (1.05 m³/s) Sept. 25, 1964.

REMARKS.--Records excellent. Prior to 1949, diurnal fluctuation at low flow caused by mill above station.

REVISIONS (WATER YEARS).--WSP 756: Drainage area. WSP 851: 1936 (maximum gage height). WSP 1302: 1929-34(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	75	296	175	575	494	311	278	1.110	373	213	187	218
2	72	367	150	485	400	290	351	682	343	196	169	397
3	82	217	140	421	340	268	512	594	300	630	155	567
4	97	168	138	392	311	351	1.150	754	277	602	153	1.110
5	100	142	239	336	278	1.020	2.130	580	255	440	168	586
6	113	128	613	318	270	966	1.910	496	237	333	155	350
7	97	117	359	311	278	669	1.030	688	221	258	140	288
8	88	112	247	265	265	646	784	588	209	222	133	253
9	82	107	228	241	255	471	602	548	202	200	132	218
10	80	101	430	262	245	400	541	601	200	260	140	199
11	78	98	318	262	239	325	512	664	189	242	127	185
12	78	98	241	244	230	297	591	592	182	199	118	174
13	77	95	197	230	225	247	740	1.670	189	181	112	405
14	80	98	271	230	225	259	882	1.200	179	169	109	1.200
15	81	98	325	233	204	250	2.220	752	172	189	106	520
16	80	155	228	228	200	308	1.630	610	165	229	103	317
17	81	166	197	200	199	796	1.010	600	421	179	115	253
18	81	130	205	190	194	485	848	548	638	160	194	334
19	92	119	185	185	189	379	771	462	334	204	138	271
20	94	108	197	195	197	332	635	410	288	381	128	289
21	94	104	1.680	199	191	315	565	374	293	222	114	639
22	88	122	2.050	315	311	308	624	352	368	182	107	1.090
23	84	130	981	332	1.360	294	1.140	458	255	153	105	572
24	81	119	480	555	777	375	899	646	219	157	108	395
25	80	157	344	375	480	355	705	616	250	155	102	334
26	78	170	1.730	304	375	311	579	560	255	151	97	357
27	77	163	3.590	704	318	290	501	516	325	156	121	310
28	77	256	2.630	1.030	301	271	458	435	275	159	253	320
29	77	284	1.470	862	------	250	441	394	226	146	707	676
30	250	212	966	624	------	256	430	372	231	283	636	995
31	256	------	669	522	------	265	------	338	------	208	318	------
TOTAL	2.950	4.634	21.673	11.625	9.351	12.360	25.474	19.610	8.071	7.469	5.450	13.842
MEAN	95.2	154	699	375	334	399	849	633	269	241	176	461
MAX	256	367	3.590	1.030	1.360	1.020	2.220	1.670	638	630	707	1.200
MIN	72	98	138	185	189	247	278	338	165	146	97	174
CFSM	.63	1.01	4.60	2.47	2.20	2.63	5.59	4.16	1.77	1.59	1.16	3.03
IN.	.72	1.13	5.30	2.85	2.29	3.02	6.23	4.80	1.98	1.83	1.33	3.39

CAL YR 1973 TOTAL 145.000 MEAN 397 MAX 3.590 MIN 71 CFSM 2.61 IN 35.49
WTR YR 1974 TOTAL 142.509 MEAN 390 MAX 3.590 MIN 72 CFSM 2.57 IN 34.88

PEAK DISCHARGE (BASE, 2,200 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-21	1530	7.73	3,280				
12-27	0930	8.09	3,820				
4-5	1930	7.23	2,580				
4-15	0230	7.23	2,580				

01331400 DRY BROOK NEAR ADAMS, MASS.

LOCATION.--Lat 42°35'20", long 73°06'48", Berkshire County, on right bank 20 ft (6 m) upstream from bridge on State Highway 116, just south of junction of Wells Road and State Highway 116, and 2.5 mi (4.0 km) south of Adams.

DRAINAGE AREA.--7.53 mi^2 (19.50 km^2).

PERIOD OF RECORD.--November 1962 to September 1974 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 1,150 ft (351 m) from topographic map.

AVERAGE DISCHARGE.--11 years (1963-74), 15.2 ft^3/s (0.430 m^3/s), 27.41 in/yr (696 mm/yr).

EXTREMES.--Current year: Maximum discharge, 947 ft^3/s (26.8 m^3/s) Dec. 21 (gage height, 5.52 ft or 1.682 m), from rating curve extended above 190 ft^3/s (5.38 m^3/s) on basis of slope-area measurement of peak flow; minimum, 1.5 ft^3/s (0.042 m^3/s) Aug. 15-17.

Period of record: Maximum discharge, 947 ft^3/s (26.8 m^3/s) Dec. 21, 1973 (gage height, 5.52 ft or 1.682 m), from rating curve extended above 190 ft^3/s (5.38 m^3/s) on basis of slope-area measurement of peak flow; no flow Sept. 9-11, 15-20, 1964, part of June 28, 1965, Aug. 10, 14-20, 1970.

REMARKS.--Records good except those for winter period, which are fair. Recording rain gage at station since May 1963 (no winter records).

REVISIONS.-WRD Mass., N.H., R.I., Vt., 1973: 1963(M), 1966-72(P).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.7	20	10	24	19	14	17	38	41	5.8	3.3	5.8
2	1.6	15	9.0	20	16	12	32	20	23	4.9	2.9	30
3	1.8	8.7	8.4	18	15	11	41	20	15	56	2.6	28
4	1.9	6.3	7.1	16	13	22	100	26	12	19	3.4	46
5	2.0	5.3	38	14	11	63	133	17	9.6	65	5.8	17
6	2.2	4.6	65	13	11	39	69	15	8.0	61	3.6	9.2
7	1.9	4.2	21	12	11	32	37	26	6.9	17	2.9	15
8	1.9	4.0	14	10	10	27	34	17	6.4	11	2.5	12
9	1.7	3.8	47	8.5	9.4	19	26	14	5.8	8.0	2.4	7.5
10	1.7	3.5	62	11	8.8	17	26	37	5.3	8.4	2.1	6.1
11	1.7	3.3	28	11	8.8	16	38	30	4.5	8.0	1.9	5.1
12	1.7	3.1	18	8.0	8.4	14	46	47	4.4	6.1	1.8	4.4
13	1.7	3.1	15	7.0	8.4	11	50	99	4.9	5.1	1.7	7.5
14	1.8	3.4	32	8.0	8.6	10	63	35	4.2	4.4	1.7	18
15	1.8	3.3	24	8.8	7.8	9.6	137	24	3.8	16	1.7	8.4
16	1.8	5.7	17	7.8	7.0	25	50	20	6.7	7.5	1.5	6.4
17	1.8	5.3	18	6.8	6.2	45	32	27	28	5.3	3.4	5.1
18	1.9	4.4	16	6.0	5.5	25	26	20	25	4.4	5.3	9.2
19	2.4	4.2	14	6.0	5.2	20	24	15	8.4	6.9	3.0	6.4
20	2.2	3.8	15	6.2	7.0	17	20	13	7.2	5.8	2.2	7.2
21	2.2	4.0	290	8.0	6.8	45	18	11	18	4.4	1.9	33
22	2.1	5.3	78	20	20	36	17	10	17	3.8	1.7	31
23	2.1	5.0	45	15	70	27	29	16	8.4	3.3	2.1	14
24	2.1	5.3	29	22	30	27	27	41	6.4	3.0	3.4	9.2
25	2.0	16	22	14	20	24	23	41	6.7	3.4	2.5	8.8
26	2.0	13	46	12	16	20	17	22	13	3.4	2.0	12
27	2.0	9.7	130	30	13	18	15	18	16	4.9	1.9	8.8
28	2.0	26	70	38	13	15	14	16	10	5.3	8.0	18
29	2.1	31	47	32	------	16	13	15	7.5	5.3	6.1	51
30	28	14	36	23	------	18	14	14	6.4	4.9	33	22
31	12	------	29	21	------	16	------	11	------	4.4	12	------
TOTAL	95.8	244.3	1,300.5	457.1	385.9	710.6	1,188	775	339.5	371.7	130.3	462.1
MEAN	3.09	8.14	42.0	14.7	13.8	22.9	39.6	25.0	11.3	12.0	4.20	15.4
MAX	28	31	290	38	70	63	137	99	41	65	33	51
MIN	1.6	3.1	7.1	6.0	5.2	9.6	13	10	3.8	3.0	1.5	4.4
CFSM	.41	1.08	5.58	1.95	1.83	3.04	5.26	3.32	1.50	1.59	.56	2.05
IN.	.47	1.21	6.42	2.26	1.91	3.51	5.87	3.83	1.68	1.84	.64	2.28

CAL YR 1973 TOTAL 7,236.5 MEAN 19.8 MAX 290 MIN 1.5 CFSM 2.63 IN 35.75
WTR YR 1974 TOTAL 6,460.8 MEAN 17.7 MAX 290 MIN 1.5 CFSM 2.35 IN 31.92

PEAK DISCHARGE (BASE, 300 ft^3/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-21	1315	5.52	947				
4-14	2345	4.23	333				

01331500 HOOSIC RIVER AT ADAMS, MASS.

LOCATION.--Lat 42°36'40", long 73°07'28", Berkshire County, on left bank at Adams, 500 ft (150 m) downstream from Dry Brook and 0.4 mi (0.6 km) upstream from Pecks Brook. Prior to May 30, 1974, at site 500 ft (150 m) upstream.

DRAINAGE AREA.--46.3 mi^2 (119.9 km^2).

PERIOD OF RECORD.--October 1931 to current year.

GAGE.--Water-stage recorder. Datum of gage is 828.01 ft (252.377 m) above mean sea level; prior to Oct. 1, 1964, datum was 9.00 ft (2.743 m) higher and Oct. 1, 1964, to May 29, 1974, 8.00 ft (2.438 m) higher, at site 500 ft (150 m) upstream.

AVERAGE DISCHARGE.--43 years, 89.9 ft^3/s (2.546 m^3/s) 26.37 in/yr (670 mm/yr), adjusted for diversion.

EXTREMES.--Current year: Maximum discharge, 2,310 ft^3/s (65.4 m^3/s) Dec. 21 (gage height, 4.37 ft or 1.332 m), from rating curve extended above 190 ft^3/s (5.38 m^3/s); minimum, 20 ft^3/s (0.57 m^3/s) Nov. 21, Aug. 13-17; minimum daily, 20 ft^3/s (0.57 m^3/s) Aug. 14-16.

Period of record: Maximum discharge, 5,080 ft^3/s (144 m^3/s) Sept. 21, 1938 (gage height, 9.25 ft or 2.819 m, site and datum then in use), from rating curve extended above 1,100 ft^3/s (31.2 m^3/s) on basis of computation of peak flow over dam; minimum daily, 8.0 ft^3/s (0.23 m^3/s) Aug. 31, Sept. 1, 1968.

REMARKS.--Records good except those above 200 ft^3/s (5.66 m^3/s), which are fair. Diversion above station for municipal supply of Adams. See table below for figures of diversion. Some diurnal fluctuation by mill above station prior to 1961. Flow regulated by Cheshire Reservoir 5.1 mi (8.2 km) upstream.

REVISIONS (WATER YEARS).--WRD Mass., N.H., R.I., Vt., 1973: 1971-72.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25	61	68	166	109	135	135	138	182	48	30	45
2	24	72	61	148	89	130	166	78	146	46	27	83
3	27	68	59	128	80	123	188	72	115	156	26	81
4	27	60	57	114	76	140	352	95	109	102	25	159
5	27	55	97	95	70	259	503	70	99	135	27	83
6	28	55	179	85	68	216	348	68	90	182	27	60
7	25	74	93	83	67	182	219	114	81	88	25	81
8	25	74	74	76	67	171	188	100	76	67	24	85
9	24	69	99	83	68	150	118	93	73	57	23	67
10	24	49	182	80	68	145	107	145	69	49	23	62
11	24	48	99	85	67	123	126	161	59	47	22	35
12	24	45	80	78	65	91	188	177	48	45	21	34
13	24	38	71	72	63	78	237	407	41	40	21	36
14	24	37	91	72	63	80	275	255	38	35	20	86
15	22	37	93	72	67	78	556	205	34	59	20	50
16	22	37	74	67	67	126	278	169	38	48	20	40
17	21	24	71	65	63	265	219	133	88	44	24	43
18	22	22	71	63	63	128	196	128	121	35	41	72
19	24	22	68	61	63	114	188	111	68	41	30	65
20	[illegible]	21	68	59	63	105	174	102	61	47	26	65
21	27	21	1,230	59	63	130	166	93	105	39	24	114
22	26	24	439	68	176	161	158	102	104	36	23	146
23	26	23	190	70	387	123	171	166	69	33	22	82
24	26	23	145	100	171	171	174	174	60	32	27	70
25	25	39	138	70	128	130	169	208	57	32	27	68
26	25	36	259	67	109	109	158	138	65	32	25	76
27	26	31	665	168	98	102	150	128	67	36	24	69
28	25	74	431	216	107	121	145	116	63	35	45	86
29	25	140	246	169	------	126	118	114	55	37	35	206
30	80	81	208	126	------	126	68	110	51	34	124	126
31	51	------	177	107	------	130	------	102	------	33	69	------
TOTAL	853	1,460	5,883	2,972	2,645	4,268	6,238	4,272	2,332	1,750	947	2,375
MEAN	27.5	48.7	190	95.9	94.5	138	208	138	77.7	56.5	30.5	79.2
MAX	80	140	1,230	216	387	265	556	407	182	182	124	206
MIN	21	21	57	59	63	78	68	68	34	32	20	34
(†)	3.15	3.20	2.93	3.28	3.57	3.11	3.18	2.96	3.30	3.23	3.42	3.33

CAL YR 1973 TOTAL 40,447 MEAN 111 MAX 1,230 MIN 21 MEAN‡ 114 CFSM‡ 2.46 IN‡ 33.39
WTR YR 1974 TOTAL 35,995 MEAN 98.6 MAX 1,230 MIN 20 MEAN‡ 102 CFSM‡ 2.20 IN‡ 29.86

PEAK DISCHARGE (BASE, 900 ft^3/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-21	1345	4.37	2,310				

† Diversion, in cubic feet per second, for municipal supply of Adams; records furnished by Adams Fire District.

‡ Adjusted for diversion.

01332000 NORTH BRANCH HOOSIC RIVER AT NORTH ADAMS, MASS.

LOCATION.--Lat 42°42'08", long 73°05'37", Berkshire County, on left bank at North Adams, 0.4 mi (0.6 km) downstream from Hudson Brook, and 1.5 mi (2.4 km) upstream from mouth.

DRAINAGE AREA.--39.0 mi² (101.0 km²).

PERIOD OF RECORD.--June 1931 to current year.

GAGE.--Water-stage recorder. Concrete control at present site. Datum of gage is 820.46 ft (250.076 m) above mean sea level. Prior to Sept. 23, 1938, at site 100 ft (30 m) upstream at same datum. July 9, 1959, to July 29, 1960, nonrecording gage at site 500 ft (150 m) upstream at datum about 4.6 ft (1.40 m) lower.

AVERAGE DISCHARGE.--43 years, 94.8 ft³/s (2.685 m³/s), 33.01 in/yr (838 mm/yr).

EXTREMES.--Current year: Maximum discharge, 4,650 ft³/s (132 m³/s) Dec. 21 (gage height, 10.58 ft or 3.225 m), from rating curve extended above 1,100 ft³/s (31.2 m³/s) on basis of computation of flow over dam at gage height 10.28 ft (3.133 m); minimum, 7.2 ft³/s (0.20 m³/s) Aug. 16, 17; minimum daily, 7.3 ft³/s (0.21 m³/s) Aug. 16.

Period of record: Maximum discharge, 8,950 ft³/s (253 m³/s) Sept. 21, 1938 (gage height, 12.05 ft or 3.673 m, from floodmarks), by computation of peak flow over dam; minimum, 1.7 ft³/s (0.048 m³/s) July 30, 1965; minimum daily, 3.1 ft³/s (0.088 m³/s) July 30, 1965.

Flood in November 1927 reached a discharge of 9,980 ft³/s (283 m³/s), by computation of flow over dam.

REMARKS.--Records good. Infrequent diurnal fluctuation at low flow by mill above station; more frequent fluctuation prior to 1948.

REVISIONS (WATER YEARS).--WSP 756: Drainage area. WSP 781: 1933(M). WSP 801: 1928(M). WRD Mass., N.H., R.I., Vt., 1973: 1971.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.8	163	94	142	143	87	66	315	143	53	22	51
2	9.7	140	75	116	108	80	100	174	108	45	17	118
3	14	87	69	99	98	73	215	134	82	217	15	158
4	19	65	63	91	98	113	645	170	72	134	14	290
5	21	53	126	74	73	427	1.190	126	61	89	15	127
6	28	44	286	68	76	324	621	110	51	80	14	78
7	17	39	141	70	74	262	319	193	44	58	12	77
8	14	35	102	54	72	260	277	137	39	45	11	67
9	13	32	176	48	70	173	226	113	34	36	10	51
10	12	28	349	72	68	143	182	171	29	31	14	41
11	12	25	175	76	65	104	167	177	40	28	11	36
12	11	25	124	61	62	92	205	190	29	23	9.5	32
13	11	25	97	51	56	66	270	738	26	20	8.6	44
14	11	25	192	63	49	71	377	312	21	20	8.0	278
15	12	24	166	59	42	64	1.290	200	19	234	7.7	115
16	11	50	109	50	39	80	464	173	24	63	7.3	77
17	11	50	112	40	39	326	326	197	108	39	22	59
18	12	37	97	37	36	157	261	152	197	29	85	69
19	19	34	86	48	34	117	221	120	78	29	26	59
20	17	30	112	40	48	99	185	103	80	57	15	54
21	15	27	2.420	44	45	99	160	90	140	30	12	88
22	14	35	710	137	125	111	143	82	167	23	10	178
23	13	36	300	105	522	89	170	122	87	19	9.9	102
24	13	33	178	153	181	119	178	159	65	17	11	78
25	13	103	123	96	127	109	160	205	54	18	9.9	67
26	12	96	380	80	99	88	129	129	70	16	8.7	86
27	12	94	1.300	197	85	82	110	117	110	25	21	73
28	12	157	649	261	81	75	101	101	87	26	102	67
29	12	214	343	226	------	65	94	97	65	21	92	350
30	167	119	235	156	------	64	89	91	54	25	164	381
31	101	------	162	143	------	65	------	76	------	23	82	------
TOTAL	668.5	1.925	9,551	2,957	2.615	4.084	8,941	5.274	2.184	1.573	866.6	3.351
MEAN	21.6	64.2	308	95.4	93.4	132	298	170	72.8	50.7	28.0	112
MAX	167	214	2.420	261	522	427	1.290	738	197	234	164	381
MIN	9.7	24	63	37	34	64	66	76	19	16	7.3	32
CFSM	.55	1.65	7.90	2.45	2.39	3.38	7.64	4.36	1.87	1.30	.72	2.87
IN.	.64	1.84	9.11	2.82	2.49	3.90	8.53	5.03	2.08	1.50	.83	3.20

CAL YR 1973 TOTAL 48.481.7 MEAN 133 MAX 2.420 MIN 9.2 CFSM 3.41 IN 46.24
WTR YR 1974 TOTAL 43.990.1 MEAN 121 MAX 2.420 MIN 7.3 CFSM 3.10 IN 41.96

PEAK DISCHARGE (BASE, 1,300 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-21	1445	10.58	4,650				
12-27	0415	8.89	2,080				
4-5	1645	8.64	1,770				
4-15	0215	9.50	2,920				
5-13	0045	8.39	1,480				

01332500 HOOSIC RIVER NEAR WILLIAMSTOWN, MASS.

LOCATION.--Lat 42°42'21", long 73°10'50", Berkshire County, on left bank 1.0 mi (1.6 km) upstream from Green River and 1.2 mi (1.9 km) east of Williamstown.

DRAINAGE AREA.--132 mi^2 (342 km^2).

PERIOD OF RECORD.--July 1940 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 595 ft (181 m) from topographic map.

AVERAGE DISCHARGE.--34 years, 269 ft^3/s (7.618 m^3/s), 27.67 in/yr (703 mm/yr).

EXTREMES.--Current year: Maximum discharge, 8,690 ft^3/s (246 m^3/s) Dec. 21 (gage height, 11.79 ft or 3.594 m), from rating curve extended above 1,600 ft^3/s (45.3 m^3/s) on basis of slope-area measurement of peak flow; minimum not determined; minimum daily, 58 ft^3/s (1.64 m^3/s) Oct. 17.

Period of record: Maximum discharge, 13,000 ft^3/s (368 m^3/s) Dec. 31, 1948 (gage height, 14.85 or 4.526 m), from rating curve extended above 4,300 ft^3/s (122 m^3/s) on basis of contracted-opening measurement of peak flow; minimum, 5.8 ft^3/s (0.16 m^3/s) Aug. 30, 31, Oct. 26, 1940; minimum daily, 25 ft^3/s (0.71 m^3/s) Sept. 2, 1968.

REMARKS.--Records good except those for period of no gage-height record, which are fair. Slight diurnal fluctuation at low flow prior to 1966 caused by mills above station. Some regulation by Cheshire Reservoir 17 mi (27 km) upstream.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	64	298	243	515	422	301	284	565	404	185	96	147
2	62	302	193	449	337	288	382	382	350	181	90	237
3	75	212	171	413	328	266	535	332	284	422	87	284
4	84	164	164	391	292	328	1.090	400	258	323	84	510
5	88	139	306	341	260	768	1.800	328	237	359	93	258
6	100	126	680	319	250	630	1.180	301	233	391	90	189
7	76	136	374	310	262	525	650	431	225	229	81	209
8	71	136	274	275	245	495	610	364	205	193	78	197
9	67	132	416	246	235	395	476	319	201	166	78	166
10	65	109	777	275	220	359	427	431	201	151	76	147
11	65	102	450	284	213	305	454	449	197	147	73	126
12	64	102	334	265	215	271	575	458	185	133	68	115
13	64	102	270	250	213	220	670	1.350	162	122	66	147
14	64	99	450	235	213	233	768	680	147	119	66	436
15	62	99	420	246	205	225	2.070	515	143	404	66	213
16	60	112	298	217	201	314	839	463	143	170	63	162
17	58	112	225	205	197	779	615	467	237	136	84	140
18	62	99	200	190	189	404	525	400	418	122	181	189
19	78	93	190	185	189	337	472	350	229	136	99	162
20	82	88	223	195	233	305	413	319	213	154	81	166
21	76	86	4.820	213	229	350	382	296	341	122	76	271
22	72	92	1.780	355	431	404	373	288	382	108	73	404
23	71	95	806	355	1.090	350	454	341	229	105	71	233
24	71	92	590	454	472	454	454	427	209	96	78	193
25	69	157	495	319	359	364	418	555	189	90	76	181
26	67	178	1.020	279	305	305	368	377	201	96	66	221
27	70	164	2.470	625	275	292	337	350	225	115	81	185
28	67	310	1.440	702	271	262	323	319	237	108	221	185
29	67	558	845	615	------	258	305	305	213	105	189	640
30	358	310	660	458	------	266	266	296	189	108	373	515
31	223	------	540	418	------	275	------	271	------	105	205	------
TOTAL	2.622	4.804	22.124	10.599	8.351	11.328	18.515	13.129	7.087	5.401	3.209	7.228
MEAN	84.6	160	714	342	298	365	617	424	236	174	104	241
MAX	358	558	4.820	702	1.090	779	2.070	1.350	418	422	373	640
MIN	58	86	164	185	189	220	266	271	143	90	63	115
CFSM	.64	1.21	5.41	2.59	2.26	2.77	4.67	3.21	1.79	1.32	.79	1.83
IN.	.74	1.35	6.23	2.99	2.35	3.19	5.22	3.70	2.00	1.52	.90	2.04

CAL YR 1973 TOTAL 127.458 MEAN 349 MAX 4.820 MIN 58 CFSM 2.64 IN 35.92
WTR YR 1974 TOTAL 114.397 MEAN 313 MAX 4.820 MIN 58 CFSM 2.37 IN 32.24

PEAK DISCHARGE (BASE, 2,400 ft^3/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-21	1715	11.79	8,690				
12-27	0630	7.34	3,620				
4-5	1745	6.04	2,450				
4-15	0300	7.13	3,420				

NOTE.--No gage-height record Oct. 1-29. Discharge in cubic feet per second per square mile and runoff in inches may not represent natural flow because of regulation.

01333000 GREEN RIVER AT WILLIAMSTOWN, MASS.

LOCATION.--Lat 42°42'32", long 73°11'50", Berkshire County, on left bank 0.1 mi (0.2 km) upstream from bridge on State Highway 2 at Williamstown and 0.8 mi (1.3 km) upstream from mouth.

DRAINAGE AREA.--42.6 mi² (110.3 km²).

PERIOD OF RECORD.--September 1949 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 615 ft (187 m) from topographic map.

AVERAGE DISCHARGE.--25 years, 79.8 ft³/s (2.260 m³/s), 25.44 in/yr (646 mm/yr).

EXTREMES.--Current year: Maximum discharge, 4,060 ft³/s (115 m³/s) Dec. 21 (gage height, 5.68 ft or 1.731 m), from rating curve extended as explained below; minimum, 8.1 ft³/s (0.23 m³/s) Oct. 2.

Period of record: Maximum discharge, 4,060 ft³/s (115 m³/s) Dec. 21, 1973 (gage height, 5.68 ft or 1.731 m), from rating curve extended above 750 ft³/s (21.2 m³/s) on basis of slope-area measurement at gage height 4.94 ft (1.506 m); maximum gage height, 5.94 ft (1.811 m) Sept. 12, 1960; minimum discharge, 3.1 ft³/s (0.088 m³/s) Sept. 20, 22, 24, 25, 1964.

Flood of Dec. 31, 1948, reached a stage of about 7.5 ft (2.3 m), from floodmarks.

REMARKS.--Records good except those for winter period, which are fair. Slight diurnal fluctuation at times caused by mill above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.3	58	53	202	145	102	108	200	122	39	21	26
2	8.3	45	44	159	120	93	143	160	99	35	20	50
3	12	32	40	140	110	86	148	120	86	124	18	62
4	12	26	38	126	100	108	336	145	78	77	18	114
5	12	23	85	110	90	173	600	120	69	83	19	65
6	12	21	133	105	80	145	447	100	62	102	17	46
7	10	19	93	95	85	128	295	160	55	74	16	49
8	10	18	75	77	80	118	253	95	50	60	16	41
9	10	17	122	65	77	108	218	89	47	53	15	35
10	11	15	145	81	74	106	190	126	44	52	15	33
11	11	15	112	83	71	91	239	120	40	45	14	30
12	11	15	93	60	63	86	271	239	39	41	14	28
13	11	15	78	55	66	72	295	538	39	37	13	59
14	11	15	155	58	62	74	358	275	35	35	13	183
15	11	14	116	69	50	69	783	206	34	47	12	88
16	11	21	95	63	53	183	364	169	35	35	12	65
17	11	18	80	52	54	320	257	180	60	31	29	53
18	12	16	70	48	45	159	210	145	86	29	34	59
19	14	16	65	48	46	140	176	126	45	40	18	47
20	12	15	78	49	70	128	150	112	44	35	15	46
21	12	15	2,200	58	62	180	135	102	106	28	14	89
22	11	17	794	112	150	166	130	93	89	27	13	102
23	11	16	392	145	392	166	150	118	62	25	14	72
24	11	16	248	148	173	202	160	138	56	24	15	62
25	11	31	190	104	143	148	150	148	56	26	13	59
26	11	31	336	99	122	135	130	122	58	24	12	69
27	11	29	620	230	108	122	110	112	53	31	16	55
28	10	52	588	230	104	114	100	104	48	26	33	65
29	11	104	386	235	------	101	95	101	44	26	27	416
30	48	63	290	183	------	101	90	93	41	26	71	275
31	28	------	222	162	------	108	------	83	------	22	33	------
TOTAL	395.6	808	8,036	3,451	2,795	4,032	7,091	4,639	1,782	1,359	610	2,443
MEAN	12.8	26.9	259	111	99.8	130	236	150	59.4	43.8	19.7	81.4
MAX	48	104	2,200	235	392	320	783	538	122	124	71	416
MIN	8.3	14	38	48	45	69	90	83	34	22	12	26
CFSM	.30	.63	6.08	2.61	2.34	3.05	5.54	3.52	1.39	1.03	.46	1.91
IN.	.35	.71	7.02	3.01	2.44	3.52	6.19	4.05	1.56	1.19	.53	2.13

CAL YR 1973 TOTAL 38,285.2 MEAN 105 MAX 2,200 MIN 8.3 CFSM 2.46 IN 33.43
WTR YR 1974 TOTAL 37,441.6 MEAN 103 MAX 2,200 MIN 8.3 CFSM 2.42 IN 32.70

PEAK DISCHARGE (BASE, 850 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-21	1330	5.68	4,060	5-12	2330	4.09	1,460
4-5	1445	3.70	1,020	9-29	1645	4.44	1,930
4-15	0145	4.28	1,700				

01334000 WALLOOMSAC RIVER NEAR NORTH BENNINGTON, VT.

LOCATION.--Lat 42°54'47", long 73°15'25", Bennington County, on left bank 0.6 mi (1.0 km) downstream from Paran Creek and 1.4 mi (2.3 km) south of North Bennington.

DRAINAGE AREA.--111 mi^2 (287 km^2).

PERIOD OF RECORD.--June 1931 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 525 ft (160 m) from topographic map.

AVERAGE DISCHARGE.--43 years, 215 ft^3/s (6.089 m^3/s), 26.30 in/yr (668 mm/yr).

EXTREMES.--Current year: Maximum discharge, 4,750 ft^3/s (135 m^3/s) Dec. 21 (gage height, 8.80 ft or 2.682 m), from rating curve extended as explained below; minimum, 42 ft^3/s (1.19 m^3/s) Oct. 2; minimum daily, 43 ft^3/s (1.22 m^3/s) Oct. 2.

Period of record: Maximum discharge, 8,450 ft^3/s (239 m^3/s) Sept. 21, 1938 (gage height, 12.04 ft or 3.670 m), from rating curve extended above 2,800 ft^3/s (79.3 m^3/s) on basis of contracted-opening measurements at gage heights 10.13, 10.49, 11.50, and 12.04 ft (3.088, 3.197, 3.505 and 3.670 m) and slope-area measurement and computation of flow over dam at gage height 12.04 ft (3.670 m); minimum, 4 ft^3/s (0.11 m^3/s) Sept. 27, 1932; minimum daily, 21 ft^3/s (0.59 m^3/s) Sept. 22, 23, 1964, July 12, 1965.

REMARKS.--Records good. Occasional diurnal fluctuation at low flow caused by mills above station; diurnal fluctuation greater prior to 1960. Diversion above station for municipal supply of Bennington and North Bennington since 1961. See table below for figures of diversion.

REVISIONS (WATER YEARS).--WSP 781: 1933(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	45	252	132	356	285	213	218	950	280	139	94	149
2	43	241	112	300	234	199	269	529	251	122	84	285
3	48	138	104	266	210	186	372	421	215	461	72	374
4	56	107	102	244	190	277	846	500	195	332	69	639
5	56	88	180	195	180	612	1.350	386	176	218	107	342
6	63	80	398	190	195	463	845	352	161	200	83	228
7	58	74	234	180	193	389	518	500	144	156	69	207
8	52	70	170	145	180	369	489	408	135	133	64	184
9	51	68	203	160	175	293	417	364	130	119	89	151
10	49	63	407	195	175	262	380	406	122	113	120	132
11	48	61	262	174	155	223	386	437	114	105	76	122
12	46	61	199	145	145	206	458	456	110	98	63	112
13	48	61	161	140	144	161	551	1.540	111	90	58	126
14	48	63	289	170	141	170	675	755	103	87	53	1.100
15	49	61	296	158	120	161	1.500	541	98	148	51	481
16	46	107	199	144	115	277	709	467	97	142	49	296
17	46	109	135	125	119	681	543	541	243	101	138	227
18	49	84	130	115	112	365	485	452	443	88	357	237
19	58	78	135	115	105	289	435	371	200	97	129	220
20	59	72	185	120	130	252	375	324	209	143	85	180
21	58	68	2.490	135	132	293	343	293	317	99	70	216
22	54	91	1.120	248	389	312	344	272	390	85	62	526
23	51	91	556	270	1.160	281	593	316	219	76	63	338
24	49	84	369	373	424	369	569	416	172	72	67	248
25	48	147	308	241	316	296	477	542	164	77	61	210
26	48	152	1.020	196	255	248	386	378	183	73	56	213
27	48	147	2.050	411	220	233	335	362	279	91	74	196
28	46	203	1.090	472	213	212	307	301	222	89	325	174
29	46	227	665	463	------	187	288	284	167	85	335	383
30	223	164	495	348	------	189	277	272	152	113	315	667
31	177	------	394	304	------	222	------	243	------	86	211	------
TOTAL	1.866	3.312	14.590	7.098	6.412	8.890	15.740	14.379	5.802	4.038	3.549	8.963
MEAN	60.2	110	471	229	229	287	525	464	193	130	114	299
MAX	223	252	2.490	472	1.160	681	1.500	1.540	443	461	357	1.100
MIN	43	61	102	115	105	161	218	243	97	72	49	112
CFSM	.54	.99	4.24	2.06	2.06	2.59	4.73	4.18	1.74	1.17	1.03	2.69
IN.	.63	1.11	4.89	2.38	2.15	2.98	5.28	4.82	1.94	1.35	1.19	3.00
(†)	3.34	3.29	5.14	4.85	4.46	5.16	5.88	6.03	4.07	3.75	4.09	5.76

CAL YR 1973 TOTAL 95.767 MEAN 262 MAX 3.210 MIN 43 CFSM 2.36 IN 32.09 (†) 4.34
WTR YR 1974 TOTAL 94.639 MEAN 259 MAX 2.490 MIN 43 CFSM 2.33 IN 31.72 (†) 4.65

PEAK DISCHARGE (BASE, 2,000 ft^3/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-21	1515	8.80	4,750	4-15	0300	5.85	2,200
12-27	0730	6.73	2,860	5-13	0230	6.21	2,460
2-23	0300	5.66	2,060				

† Diversion, in cubic feet per second, for municipal supply of Bennington and North Bennington; records furnished by town of Bennington.

ST. LAWRENCE RIVER BASIN

04280000 POULTNEY RIVER BELOW FAIR HAVEN, VT.

LOCATION.--Lat 43°37'40", long 73°18'50", Rutland County, on right bank 0.3 mi (0.5 km) downstream from Carver Falls, 1.9 mi (3.1 km) upstream from Hubbardton River, and 3.2 mi (5.1 km) northwest of Fair Haven.

DRAINAGE AREA.--187 mi² (484 km²).

PERIOD OF RECORD.--October 1928 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 105 ft (32 m) from topographic map.

AVERAGE DISCHARGE.--46 years, 238 ft³/s (6.740 m³/s), 17.28 in/yr (439 mm/yr).

EXTREMES.--Current year: Maximum discharge, 6,140 ft³/s (174 m³/s) Dec. 22 (gage height, 16.83 ft or 5.130 m), from rating curve extended above 2,400 ft³/s (68.0 m³/s) as explained below; minimum daily, 4.0 ft³/s (0.11 m³/s) Oct. 16, 19, 24.

Period of record: Maximum discharge, 14,800 ft³/s (419 m³/s) July 20, 1945 (gage height, 24.36 ft or 7.425 m, from high-water mark in gage well), from rating curve extended above 2,400 ft³/s (68.0 m³/s) on basis of computations of flow over dam at gage heights 16.10, 21.40, and 24.36 ft (4.907, 6.523, and 7.425 m); minimum daily, 2.1 ft³/s (0.059 m³/s) Aug. 8, 1965.

REMARKS.--Records good except those for winter period, which are fair. Flow regulated by powerplant above station and by Lake Bomoseen.

REVISIONS (WATER YEARS).--WSP 1114: 1929(M), 1932-35.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT.	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	49	67	62	640	560	470	340	327	257	84	71	220
2	5.2	133	55	560	400	430	447	370	250	86	78	165
3	6.6	162	51	490	330	380	587	352	238	115	50	218
4	38	159	56	440	290	350	1.090	365	226	223	560	729
5	5.6	186	56	390	260	450	1.520	430	214	187	644	576
6	17	176	182	360	210	704	1.400	436	200	541	453	327
7	19	167	158	330	170	691	1.170	490	185	391	280	258
8	42	153	101	300	175	680	979	562	172	284	184	197
9	5.2	117	120	270	180	596	870	429	162	158	146	152
10	6.3	89	230	280	190	450	763	349	155	119	143	133
11	40	108	210	340	160	380	726	355	150	108	108	115
12	4.3	108	172	330	180	340	755	418	125	102	114	101
13	5.2	22	162	290	175	310	882	1.280	97	91	69	693
14	12	10	213	250	170	280	1.370	1.330	106	103	61	649
15	40	37	383	280	170	260	1.760	1.090	79	134	66	537
16	4.0	61	268	250	160	240	1.730	916	82	105	55	377
17	4.6	119	180	220	145	600	1.400	790	105	97	51	258
18	32	76	165	200	135	660	1.130	709	125	95	145	210
19	4.0	81	140	190	125	580	939	616	124	60	93	173
20	4.6	82	155	200	115	480	806	492	107	36	107	162
21	12	35	1.650	220	105	410	690	396	103	55	25	269
22	14	32	3.860	370	160	350	595	339	96	85	132	849
23	42	56	1.700	400	1.500	340	520	304	113	18	69	593
24	4.0	27	1.000	570	1.300	480	482	350	115	61	24	525
25	4.3	50	500	460	1.100	530	504	375	111	75	34	467
26	36	43	900	400	980	470	484	358	90	50	68	415
27	4.6	43	3.000	600	720	410	434	333	84	36	19	235
28	5.2	54	2.200	900	560	360	385	325	80	41	81	175
29	7.0	91	1.600	1.000	------	340	345	307	62	81	85	299
30	46	88	1.000	720	------	320	318	295	60	146	343	678
31	45	------	760	640	------	320	------	282	------	142	282	------
TOTAL	564.7	2.632	21.289	12.890	10.715	13.661	25.421	15.770	4.073	3.899	4.640	10.755
MEAN	18.2	87.7	687	416	383	441	847	509	136	126	150	359
MAX	49	186	3.860	1.000	1.500	704	1.760	1.330	257	541	644	849
MIN	4.0	10	51	190	105	240	318	282	60	18	19	101
CFSM	.10	.47	3.67	2.22	2.05	2.36	4.53	2.72	.73	.67	.80	1.92
IN.	.11	.52	4.24	2.56	2.13	2.72	5.06	3.14	.81	.78	.92	2.14

CAL YR 1973 TOTAL 124.704.0 MEAN 342 MAX 3.860 MIN 4.0 CFSM 1.83 IN 24.81
WTR YR 1974 TOTAL 126.309.7 MEAN 346 MAX 3.860 MIN 4.0 CFSM 1.85 IN 25.13

PEAK DISCHARGE (BASE, 2,600 ft³/s)

NOTE.--No gage-height record Dec. 23 to Jan. 28.

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-22	0215	16.83	6,140				
12-27	-	-	*4,000				

* About.

04280300 METTAWEE RIVER TRIBUTARY NEAR PAWLET, VT.

LOCATION.--Lat 43°19'43", long 73°10'23", Rutland County, on left bank 20 ft (6 m) downstream from culvert on State Highway 30, 400 ft (100 m) upstream from mouth, and 1.2 mi (1.9 km) south of Pawlet.

DRAINAGE AREA.--2.95 mi² (7.64 km²).

PERIOD OF RECORD.--February 1963 to September 1974 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 650 ft (198 m) from topographic map.

AVERAGE DISCHARGE.--11 years, 3.27 ft³/s (0.093 m³/s), 15.05 in/yr (382 mm/yr).

EXTREMES.--Current year: Maximum discharge, 58 ft³/s (1.64 m³/s) Dec. 21 (gage height, 4.30 ft or 1.311 m), from rating curve extended above 8.1 ft³/s (0.23 m³/s); maximum gage height, 4.54 ft (1.384 m) Feb. 22 (backwater from ice); minimum discharge, 0.06 ft³/s (0.002 m³/s) Aug. 22.

Period of record: Maximum discharge, 266 ft³/s (7.53 m³/s) July 21, 1967 (gage height, 4.82 ft or 1.469 m), from rating curve extended above 19 ft³/s (0.54 m³/s) on basis of measurement of peak flow through culvert; no flow July 25-28, July 31 to Aug. 7, 1964, July 27, 28, Aug. 4, 1965.

REMARKS.--Records poor. Recording rain gage at station since April 1964 (no winter records).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.27	.35	.69	7.9	7.8	5.6	5.7	6.9	5.8	1.6	.63	.63
2	.27	.33	.69	7.2	6.8	5.2	6.4	6.2	5.6	1.9	.50	.69
3	.38	.30	.50	6.4	6.0	4.9	6.5	6.2	5.4	3.6	.44	1.2
4	.33	.30	.69	6.3	5.2	6.1	9.7	6.6	5.0	1.4	.38	1.1
5	.38	.30	1.0	5.9	4.6	6.6	10	6.1	4.7	4.9	.35	.89
6	.38	.33	1.3	5.9	4.1	5.8	9.3	6.3	4.3	2.5	.41	.82
7	.35	.30	.82	5.1	3.6	5.9	8.2	7.9	4.2	2.0	.41	.82
8	.35	.30	.69	4.6	3.3	5.7	8.9	7.0	3.9	2.0	.41	.82
9	.38	.30	1.4	4.0	3.0	5.2	8.8	6.6	3.8	1.7	.38	.82
10	.41	.30	1.7	3.6	2.8	5.1	8.0	6.4	3.6	2.3	.38	.76
11	.35	.27	2.2	3.5	2.6	4.6	8.0	6.3	3.7	1.9	.38	.76
12	.35	.27	2.3	3.3	2.5	4.4	8.4	7.6	3.5	1.6	.38	.76
13	.33	.21	1.9	3.1	2.5	4.4	9.9	11	3.3	1.4	.41	1.0
14	.38	.21	1.7	2.9	2.4	4.4	11	8.7	3.2	1.6	.41	.95
15	.38	.23	1.6	2.7	2.4	4.0	14	7.7	3.0	1.7	.35	.76
16	.38	.38	1.3	2.5	2.3	8.3	11	6.9	2.8	1.3	.38	.76
17	.38	.30	1.2	2.4	2.3	8.8	9.5	7.2	4.2	1.1	.50	.76
18	.38	.30	1.7	2.3	2.3	6.1	9.1	6.6	4.4	.95	.47	.89
19	.41	.30	1.9	2.3	2.2	5.9	8.5	6.1	3.3	1.2	.47	.76
20	.35	.30	2.6	2.4	2.2	5.8	7.9	5.9	3.0	1.2	.27	.76
21	.33	.33	29	2.5	2.2	6.2	7.4	5.6	3.2	1.0	.13	1.3
22	.33	.35	15	3.5	11	6.1	7.0	5.4	2.8	.95	.10	1.1
23	.33	.38	12	5.0	12	6.1	7.4	7.1	3.0	.82	.13	1.0
24	.33	.38	9.8	6.8	8.0	8.8	8.3	8.4	2.5	.69	.09	.95
25	.33	.41	8.9	6.1	6.9	7.1	7.4	9.0	2.5	.63	.08	.89
26	.33	.41	15	5.7	6.4	6.6	7.0	7.8	2.2	.63	.08	.82
27	.27	.44	25	16	5.9	6.1	6.8	7.3	2.0	.56	.11	.82
28	.27	.56	15	12	5.7	5.9	6.4	6.9	1.9	.69	.16	.76
29	.27	.63	11	12	------	5.6	6.1	6.6	1.9	.95	.95	1.4
30	.38	.63	9.6	9.8	------	5.4	5.7	6.4	2.0	2.5	.69	1.2
31	.35	------	8.5	8.7	------	5.6	------	5.9	------	.82	.69	------
TOTAL	10.71	10.40	186.68	172.4	129.0	182.3	248.3	216.6	104.7	48.09	11.52	26.95
MEAN	.35	.35	6.02	5.56	4.61	5.88	8.28	6.99	3.49	1.55	.37	.90
MAX	.41	.63	29	16	12	8.8	14	11	5.8	4.9	.95	1.4
MIN	.27	.21	.50	2.3	2.2	4.0	5.7	5.4	1.9	.56	.08	.63
CFSM	.12	.12	2.04	1.88	1.56	1.99	2.81	2.37	1.18	.53	.13	.31
IN.	.14	.13	2.35	2.17	1.63	2.30	3.13	2.73	1.32	.61	.15	.34

CAL YR 1973 TOTAL 1,252.93 MEAN 3.43 MAX 40 MIN .12 CFSM 1.16 IN 15.80
WTR YR 1974 TOTAL 1,347.65 MEAN 3.69 MAX 29 MIN .08 CFSM 1.25 IN 16.99

PEAK DISCHARGE (BASE, 40 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-21	1430	4.30	58				
12-27	0630	3.65	42				

04281500 EAST CREEK AT RUTLAND, VT.

LOCATION.--Lat 43°37'43", long 72°59'22", Rutland County, on left bank on grounds of Rutland Country Club, at Rutland, 280 ft (85 m) downstream from Grove Street Bridge and 2 mi (3 km) upstream from mouth.

DRAINAGE AREA.--51.1 mi² (132.3 km²).

PERIOD OF RECORD.--August 1940 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 570 ft (174 m) from topographic map.

AVERAGE DISCHARGE.--34 years, 98.4 ft³/s (2.787 m³/s), 26.15 in/yr (664 mm/yr), adjusted for diversion and storage.

EXTREMES.--Current year: Maximum discharge, 1,290 ft³/s (36.5 m³/s) Feb. 23 (gage height, 4.01 ft or 1.222 m), from rating curve extended above 490 ft³/s (13.9 m³/s) on basis of computation of flow over dam and slope-area measurement at gage height 7.10 ft (2.164 m); minimum daily, 11 ft³/s (0.31 m³/s) Nov. 10, 11.

Period of record: Maximum discharge, 36,500 ft³/s (1,030 m³/s) June 3, 1947 (gage height, 20.3 ft or 6.19 m, from high-water mark in gage house), mean of two slope-area measurements, caused by failure of East Pittsford Dam, 5.8 mi (9.3 km) upstream; minimum daily, 3.1 ft³/s (0.088 m³/s) Nov. 8, 1947.

REMARKS.--Records good. Diversion above station from Mendon Brook for municipal supply of Rutland. Flow regulated by powerplants and by Chittenden Reservoir 11 mi (17.7 km) upstream (usable capacity, 819,800,000 ft³ or 23,220,000 m³); prior to June 3, 1947, also regulated by East Pittsford Reservoir (usable capacity, 150,000,000 ft³ or 4,250,000 m³). See table below for figures of diversion and monthend contents in Chittenden Reservoir.

REVISIONS (WATER YEARS).--WSP 1307: 1941-42(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	59	37	104	131	73	203	187	149	60	68	43
2	14	56	36	75	58	54	225	159	137	57	60	42
3	31	58	39	77	77	49	322	92	135	100	97	170
4	54	35	25	88	92	154	625	200	133	53	220	327
5	97	25	65	58	154	274	532	119	122	160	160	231
6	36	26	145	71	117	176	230	148	64	246	74	195
7	19	22	69	114	83	136	123	199	30	69	74	60
8	21	16	51	114	95	145	171	172	28	104	67	43
9	23	17	58	104	42	79	97	167	26	75	49	110
10	15	11	102	107	51	69	104	209	24	83	38	166
11	15	11	67	109	73	109	116	133	24	72	25	116
12	15	19	53	56	107	99	119	110	23	68	57	160
13	15	14	36	63	90	63	198	325	19	25	54	363
14	15	15	136	125	73	58	337	210	17	25	48	176
15	18	28	107	104	51	53	522	168	16	113	49	77
16	15	166	49	114	20	69	213	143	17	67	27	119
17	15	65	52	99	31	228	162	116	137	28	26	126
18	15	42	46	114	30	81	153	89	208	101	36	122
19	16	37	54	48	40	77	162	77	65	108	28	124
20	15	27	87	71	49	58	125	136	33	54	60	133
21	15	27	734	58	40	58	101	102	31	27	60	182
22	15	37	311	128	258	46	99	129	33	79	59	178
23	15	33	160	95	519	43	172	182	33	99	40	109
24	15	30	107	122	135	104	189	167	33	66	25	92
25	15	39	189	122	128	154	148	135	32	92	24	139
26	15	35	250	81	120	125	168	96	32	49	23	145
27	15	35	471	203	61	134	229	83	48	32	64	136
28	15	88	250	231	69	130	223	153	46	27	110	124
29	15	81	163	183	------	128	207	180	35	25	206	178
30	69	51	145	139	------	179	133	200	36	198	276	224
31	49	------	104	122	------	185	------	192	------	63	79	------
TOTAL	731	1.205	4.198	3.299	2.794	3.390	6.408	4.778	1.766	2.425	2.283	4.410
MEAN	23.6	40.2	135	106	99.8	109	214	154	58.9	78.2	73.6	147
MAX	97	166	734	231	519	274	625	325	208	246	276	363
MIN	14	11	25	48	20	43	97	77	16	25	23	42
(†)	5.82	5.91	5.92	5.95	5.67	5.82	5.87	5.94	6.32	6.23	6.32	6.26
(‡)	0	130.0	351.3	351.3	377.6	445.8	578.6	656.0	656.0	651.0	672.8	674.0
MEAN ††	29.4	96.2	224	112	116	141	271	189	65.2	82.6	88.1	154
CFSM ††	.58	1.88	4.38	2.19	2.27	2.76	5.30	3.70	1.28	1.62	1.72	3.01
IN.††	.66	2.10	5.05	2.54	2.37	3.17	5.91	4.26	1.42	1.86	1.99	3.36

CAL YR 1973 TOTAL 49.018 MEAN 134 MAX 1.030 MIN 11 MEAN†† 135 CFSM†† 2.64 IN†† 35.93
WTR YR 1974 TOTAL 37.687 MEAN 103 MAX 734 MIN 11 MEAN†† 131 CFSM†† 2.56 IN†† 34.71

† Diversion, in cubic feet per second, from Mendon Brook for municipal supply of Rutland; records furnished by city of Rutland.
‡ Monthend contents, in millions of cubic feet, in Chittenden Reservoir; records furnished by Central Vermont Public Service Corp.
†† Adjusted for diversion from Meadow Brook and for change in contents in Chittenden Reservoir.

04282000 OTTER CREEK AT CENTER RUTLAND, VT.

LOCATION.--Lat 43°36'13", long 73°00'49", Rutland County, on right bank 500 ft (150 m) upstream from bridge on U.S. Highway 4 at Center Rutland, 200 ft (60 m) downstream from dam, 1.2 mi (1.9 km) downstream from East Creek, and 1.5 mi (2.4 km) west of Rutland.

DRAINAGE AREA.--307 mi² (795 km²).

PERIOD OF RECORD.--May 1928 to current year.

GAGE.--Water-stage recorder. Datum of gage is 474.80 ft (144.719 m) above mean sea level; prior to Oct. 1, 1964, datum was 1.00 ft (0.305 m) higher. Prior to July 22, 1929, nonrecording gage at same site.

AVERAGE DISCHARGE.--46 years, 536 ft³/s (15.18 m³/s), 23.71 in/yr (602 mm/yr).

EXTREMES.--Current year: Maximum discharge, 5,940 ft³/s (168 m³/s) Dec. 27 (gage height, 10.29 ft or 3.136 m); minimum daily, 105 ft³/s (2.97 m³/s) Oct. 1.

Period of record: Maximum discharge, 13,700 ft³/s (388 m³/s) Sept. 22, 1938 (gage height, 13.45 ft or 4.100 m, present datum), from rating curve extended above 7,400 ft³/s (210 m³/s) on basis of computation of peak flow over dam; minimum daily, 45 ft³/s (1.27 m³/s) Sept. 21, 1947, Aug. 7, 1965.

REMARKS.--Records good except those for periods of no gage-height record, which are fair. Flow regulated by powerplants and Chittenden Reservoir 14 mi (22.5 km) upstream on East Creek (usable capacity, 819,800,000 ft³ or 23,220,000 m³); prior to June 3, 1947, also regulated by East Pittsford Reservoir (usable capacity, 150,000,000 ft³ or 4,250,000 m³). See table with station 04281500 for month-end contents in Chittenden Reservoir.

REVISIONS (WATER YEARS).--WSP 1084: 1929.

DISCHARGE. IN CUBIC FEET PER SECOND. WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	105	320	294	867	860	563	450	1.060	580	270	270	280
2	110	463	247	712	600	541	600	1.080	542	250	240	600
3	120	414	219	619	500	455	1.000	800	499	740	210	800
4	200	329	223	560	450	563	2.360	1.120	472	800	210	1.200
5	230	244	295	480	410	1.410	3.760	878	432	680	240	850
6	220	206	835	440	390	1.710	3.360	766	360	500	230	600
7	200	183	672	480	390	1.340	1.850	1.140	291	400	220	450
8	170	168	459	430	380	1.220	1.510	1.070	258	340	210	400
9	140	160	401	300	360	813	1.130	888	243	300	210	350
10	130	147	708	300	340	656	903	898	245	330	220	310
11	120	131	612	370	320	557	865	921	250	310	210	290
12	115	142	472	350	310	529	1.020	818	256	260	200	270
13	110	139	344	310	300	366	1.270	1.830	225	230	190	650
14	110	144	545	320	280	378	1.510	1.750	205	210	185	1.300
15	110	164	751	330	270	381	2.810	1.210	193	220	170	800
16	109	544	445	340	250	414	2.590	921	183	260	143	380
17	109	489	216	310	230	1.170	1.700	872	470	230	142	310
18	111	320	242	280	225	750	1.350	841	966	210	198	350
19	121	256	279	270	220	580	1.220	693	548	250	201	320
20	124	221	313	290	220	510	1.020	671	352	490	207	340
21	124	187	2.480	350	240	490	871	590	309	320	191	700
22	124	213	4.220	450	500	470	930	572	398	270	178	1.150
23	119	223	2.520	500	2.500	450	1.270	722	354	230	152	700
24	117	208	1.330	780	1.770	600	1.370	992	300	230	140	500
25	113	226	851	550	1.070	560	1.260	1.130	295	220	136	450
26	110	236	1.200	450	705	500	992	846	328	210	127	450
27	109	218	4.400	950	527	450	921	751	381	220	159	420
28	109	337	4.420	1.700	508	420	849	725	388	230	272	410
29	108	441	2.640	1.750	------	380	822	708	300	220	428	800
30	241	359	1.610	1.100	------	390	756	713	300	390	950	1.050
31	451	------	1.060	900	------	400	------	648	------	300	600	------
TOTAL	4.489	7.832	35.303	17.838	15.125	20.016	42.319	28.624	10.923	10.120	7.439	17.480
MEAN	145	261	1.139	575	540	646	1.411	923	364	326	240	583
MAX	451	544	4.420	1.750	2.500	1.710	3.760	1.830	966	800	950	1.300
MIN	105	131	216	270	220	366	450	572	183	210	127	270
CFSM	.47	.85	3.71	1.87	1.76	2.10	4.60	3.01	1.19	1.06	.78	1.90
IN.	.54	.95	4.28	2.16	1.83	2.43	5.13	3.47	1.32	1.23	.90	2.12

CAL YR 1973 TOTAL 253.300 MEAN 694 MAX 6.960 MIN 92 CFSM 2.26 IN 30.69
WTR YR 1974 TOTAL 217.508 MEAN 596 MAX 4.420 MIN 105 CFSM 1.94 IN 26.36

PEAK DISCHARGE (BASE, 3,400 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-22	1500	8.83	4,460				
12-27	1545	10.29	5,940				
4-5	1945	8.34	4,020				

NOTE.--No gage-height record Oct. 1-15, Jan. 20 to Feb. 23, Mar. 19 to Apr. 3, June 29 to Aug. 13, Aug. 30 to Sept. 30.

04282500 OTTER CREEK AT MIDDLEBURY, VT.

LOCATION.--Lat 44°00'47", long 73°10'06", Addison County, on right bank 150 ft (46 m) upstream from highway bridge in Middlebury, and 3.5 mi (5.6 km) downstream from Middlebury River.

DRAINAGE AREA.--628 mi² (1,627 km²).

PERIOD OF RECORD.--April 1903 to April 1907, October 1910 to January 1920, October 1928 to current year.

GAGE.--Water-stage recorder. Datum of gage is 335.75 ft (102.337 m) above mean sea level. Apr. 1, 1903, to Apr. 30, 1907, and Oct. 5, 1910, to Jan. 31, 1920, nonrecording gage at site 1,800 ft (550 m) upstream at datum 10 ft (3 m) lower, and Oct. 1, 1928, to Oct. 17, 1933, at present datum.

AVERAGE DISCHARGE.--58 years (1903-6, 1910-19, 1928-74), 963 ft³/s (27.27 m³/s), 20.82 in/yr (529 mm/yr).

EXTREMES.--Current year: Maximum discharge, 4,160 ft³/s (118 m³/s) Jan. 2 (gage height, 5.80 ft or 1.768 m); minimum daily, 182 ft³/s (5.15 m³/s) Oct. 1.

Period of record: Maximum discharge, 11,000 ft³/s (312 m³/s) Mar. 20, 21, 1936 (gage height, 10.3 ft or 3.14 m); minimum daily, 92 ft³/s (2.61 m³/s) Aug. 9, 1965.

Maximum discharge since at least 1830, 13,600 ft³/s (385 m³/s) Nov. 4, 1927 (gage height, 13.3 ft or 4.05 m, present datum, at site 1,800 ft or 550 m upstream), from rating curve extended above 9,000 ft³/s (255 m³/s).

REMARKS.--Records good except those for winter period, which are fair. Some regulation by Chittenden Reservoir (usable capacity, 819,800,000 ft³ or 23,220,000 m³) on East Creek; see table with station 04281500 for monthend contents. Records of suspended-sediment loads for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 434: 1903-4. WSP 684: 1913(M), drainage area. WSP 1114: 1913. WSP 1207: 1929, 1931.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	182	573	725	4,120	2,300	2,030	1,110	2,150	1,320	643	1,010	1,010
2	219	585	604	4,050	2,300	1,900	1,300	2,050	1,240	645	717	695
3	286	629	537	3,700	2,200	1,770	1,480	1,960	1,070	633	588	520
4	427	604	526	3,400	2,100	1,680	2,090	1,970	924	946	784	1,070
5	380	531	526	3,050	1,900	1,880	2,520	1,890	808	1,240	1,320	1,420
6	417	490	1,160	2,750	1,790	2,090	2,470	1,850	754	1,370	1,160	1,490
7	411	438	1,340	2,450	1,500	2,220	2,460	1,900	682	1,510	859	1,430
8	370	390	1,280	2,150	1,300	2,250	2,610	1,870	606	1,470	681	1,170
9	411	360	1,090	2,100	1,100	2,200	2,800	1,850	512	1,220	594	817
10	337	337	1,070	1,700	950	2,150	2,900	1,860	471	924	626	586
11	306	246	1,160	1,400	800	2,030	2,970	1,850	523	735	505	591
12	253	249	1,120	1,500	740	1,880	2,950	1,840	482	682	422	525
13	242	311	952	1,350	750	1,620	2,940	2,240	465	614	507	871
14	222	306	1,110	1,100	720	1,310	3,000	2,140	499	524	428	1,390
15	190	290	1,380	1,150	660	1,040	3,220	2,110	431	522	383	1,410
16	263	666	1,290	1,200	570	868	3,120	2,120	382	626	328	1,290
17	311	952	780	1,050	470	1,250	3,040	2,160	484	643	337	1,080
18	263	841	550	900	449	1,490	3,050	2,170	911	572	532	865
19	278	[illegible]	570	800	449	1,510	3,080	2,110	1,190	540	519	778
20	282	[illegible]	650	660	438	1,390	3,070	2,010	1,020	617	549	759
21	216	444	1,550	640	440	1,190	3,010	1,870	773	739	507	801
22	196	455	2,020	750	795	968	2,900	1,730	740	641	471	1,220
23	216	438	1,970	950	1,950	861	2,850	1,660	650	545	448	1,430
24	274	433	2,050	1,150	1,870	1,030	2,710	1,670	635	521	414	1,460
25	235	444	2,190	1,250	1,900	1,300	2,610	1,680	612	495	321	1,360
26	232	427	2,360	1,250	1,970	1,350	2,500	1,700	601	471	261	1,170
27	253	449	2,830	1,430	2,060	1,300	2,420	1,710	672	469	314	1,010
28	207	641	3,310	1,700	2,080	1,200	2,340	1,650	757	392	332	897
29	185	921	3,430	1,750	-------	1,070	2,260	1,540	711	315	389	991
30	271	906	3,710	1,830	-------	999	2,190	1,440	597	697	850	1,280
31	422	-------	4,030	2,000	-------	984	-------	1,370	-------	1,050	1,190	-------
TOTAL	8,757	15,550	47,870	55,280	36,501	46,860	77,970	58,120	21,537	23,106	18,348	31,366
MEAN	282	518	1,544	1,783	1,304	1,512	2,599	1,875	718	745	592	1,046
MAX	427	952	4,030	4,120	2,300	2,250	3,220	2,240	1,320	1,510	1,320	1,490
MIN	182	246	526	640	438	861	1,110	1,370	382	315	261	520
CFSM	.45	.82	2.46	2.84	2.08	2.41	4.14	2.99	1.14	1.19	.94	1.67
IN.	.52	.92	2.84	3.27	2.16	2.78	4.62	3.44	1.28	1.37	1.09	1.86

CAL YR 1973 TOTAL 459,960 MEAN 1,260 MAX 4,030 MIN 165 CFSM 2.01 IN 27.25
WTR YR 1974 TOTAL 441,265 MEAN 1,209 MAX 4,120 MIN 182 CFSM 1.93 IN 26.14

04282700 LEWIS CREEK TRIBUTARY AT STARKSBORO, VT.

LOCATION.--Lat 44°12'59", long 73°03'21", Addison County, on right bank 25 ft (8 m) downstream from culvert on State Highway 116, 0.3 mi (0.5 km) upstream from mouth, and 0.7 mi (1.1 km) south of Starksboro.

DRAINAGE AREA.--5.31 mi² (13.75 km²).

PERIOD OF RECORD.--February 1963 to September 1974 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 650 ft (198 m) from topographic map.

AVERAGE DISCHARGE.--11 years, 7.40 ft³/s (0.210 m³/s), 18.92 in/yr (481 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,350 ft³/s (38.2 m³/s) Dec. 21 (gage height, 5.25 ft or 1.600 m), from rating curve extended above 97 ft³/s (2.75 m³/s); minimum, 0.16 ft³/s (0.005 m³/s) Jan. 20, 21, Aug. 22.

Period of record: Maximum discharge, 1,350 ft³/s (38.2 m³/s) Dec. 21, 1973 (gage height, 5.25 ft or 1.600 m), from rating curve extended above 97 ft³/s (2.75 m³/s); minimum, 0.14 ft³/s (0.004 m³/s) Sept. 21-25, 27, 1964.

REMARKS.--Records good except those for winter period and those above 20 ft³/s (0.57 m³/s), which are fair. Recording rain gage at station since July 1964 (no winter records).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.9	3.1	9.4	7.9	6.6	14	4.4	19	6.2	17	.77	.29
2	1.5	3.1	7.9	4.1	5.8	10	4.9	13	4.9	3.8	.60	.28
3	2.9	5.3	7.3	3.7	4.3	9.1	29	13	4.3	2.9	.55	.60
4	3.1	4.1	7.3	2.8	3.6	19	269	18	4.1	2.5	.72	.62
5	4.7	3.4	7.9	1.4	3.2	67	98	14	3.4	2.0	1.0	.42
6	4.1	3.4	22	.95	3.0	23	45	12	3.2	1.8	.67	.38
7	3.1	3.4	13	1.0	2.8	21	22	18	2.8	1.6	.56	.33
8	2.8	2.9	10	.55	2.7	17	15	12	2.6	1.5	.51	.29
9	2.4	2.8	12	.60	2.7	11	11	10	2.3	1.2	.54	.28
10	2.1	2.6	13	.54	2.6	9.1	11	15	2.3	1.8	.50	.30
11	1.9	2.6	11	.52	2.6	10	10	15	3.4	1.2	.46	.37
12	1.9	2.6	9.9	.52	2.5	9.9	9.7	17	2.4	2.7	.41	.30
13	1.7	2.6	8.4	.41	2.5	8.0	31	40	2.2	.92	.36	.34
14	1.4	2.2	20	.35	2.4	6.5	65	21	2.0	.75	.38	.32
15	1.2	4.4	15	.38	2.3	5.5	136	18	1.8	.81	.37	.29
16	1.7	11	11	.29	2.1	6.1	29	13	1.6	.68	.33	.27
17	1.4	8.4	8.9	.28	2.1	9.2	21	10	3.9	.59	.53	.27
18	1.4	7.3	8.4	.36	2.1	5.4	16	7.9	3.6	.58	.62	.35
19	1.9	6.3	7.3	.28	2.1	5.4	13	6.3	2.4	2.4	.45	.28
20	1.4	5.3	8.9	.20	2.1	5.2	10	5.4	2.5	2.3	.41	.37
21	1.4	4.7	310	.55	2.1	5.0	8.4	5.1	1.8	1.1	.37	.59
22	2.1	10	50	1.4	20	4.9	9.6	4.7	1.8	.81	.31	.73
23	1.3	8.9	16	.62	110	5.0	23	11	1.8	.64	.29	.41
24	1.2	7.9	7.9	.55	51	6.8	20	12	1.7	.58	.30	.37
25	1.3	7.9	9.4	.43	29	6.6	20	15	2.4	1.1	.30	.34
26	1.3	6.0	17	.40	20	5.8	18	11	1.6	.68	.29	.34
27	1.3	6.0	105	19	16	5.4	13	8.8	2.3	.58	.29	.34
28	1.3	13	43	17	13	5.0	11	8.4	1.9	.51	.39	.34
29	1.3	16	25	11	-------	4.7	12	7.0	1.5	.60	.44	.50
30	2.9	11	14	9.2	-------	4.4	13	6.1	1.4	2.7	.48	.41
31	2.9	-------	11	10	-------	4.2	-------	5.4	-------	1.5	.38	-------
TOTAL	62.8	178.2	826.9	97.28	320.4	329.2	998.0	392.1	80.1	59.83	14.60	11.32
MEAN	2.03	5.94	26.7	3.14	11.4	10.6	33.3	12.6	2.67	1.93	.47	.38
MAX	4.7	16	310	19	110	67	269	40	6.2	17	1.0	.73
MIN	1.2	2.2	7.3	.20	2.1	4.2	4.4	4.7	1.4	.51	.29	.27
CFSM	.38	1.12	5.03	.59	2.15	2.00	6.27	2.37	.50	.36	.09	.07
IN.	.44	1.25	5.79	.68	2.24	2.31	6.99	2.75	.56	.42	.10	.08

CAL YR 1973 TOTAL 5,504.05 MEAN 15.1 MAX 310 MIN .79 CFSM 2.84 IN 38.56
WTR YR 1974 TOTAL 3,370.73 MEAN 9.23 MAX 310 MIN .20 CFSM 1.74 IN 23.61

PEAK DISCHARGE (BASE, 100 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-21	1130	5.25	1,350	4-4	1600	4.65	555
12-27	0600	4.39	354	4-15	0100	4.64	546
2-23	-	-	*150	5-13	0115	3.86	112
3-5	0900	4.13	209	7-1	0230	3.94	137

* About.

04284000 JAIL BRANCH AT EAST BARRE, VT.

LOCATION.--Lat 44°09'30", long 72°26'44", Washington County, on right bank 1,400 ft (430 m) upstream from highway bridge, at East Barre, 1,400 ft (430 m) downstream from East Barre Detention Reservoir, and 4.2 mi (6.8 km) upstream from mouth.

DRAINAGE AREA.--38.9 mi^2 (100.8 km^2).

PERIOD OF RECORD.--August 1920 to September 1923, October 1933 to current year. October 1933 monthly discharge only, published in WSP 1307. Prior to October 1922, published as Jail Brook at East Barre.

GAGE.--Water-stage recorder. Datum of gage is 1,107.25 ft (337.490 m) above mean sea level. Aug. 14, 1920, to Sept. 30, 1923, nonrecording gage at site 0.1 mi (0.2 km) downstream at different datum. Nov. 1, 1933, to Jan. 25, 1935, nonrecording gage and Jan. 26, 1935, to Aug. 7, 1972, water-stage recorder at site 1,500 ft (460 m) downstream. Datum of gage was 1,071.59 ft (326.621 m) above mean sea level Nov. 1, 1933, to Sept. 30, 1964, and 1,069.59 ft (326.011 m) above mean sea level Oct. 1, 1964, to Aug. 7, 1972 (levels by Corps of Engineers).

AVERAGE DISCHARGE.--44 years, 53.5 ft^3/s (1.515 m^3/s), 17.98 in/yr (457 mm/yr), adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 590 ft^3/s (16.7 m^3/s) Dec. 22 (gage height, 4.87 ft or 1.484 m); maximum gage height, 8.18 ft (2.493 m) Feb. 23 (ice jam); minimum discharge, 2.8 ft^3/s (0.079 m^3/s) Aug. 27-29.

Period of record: Maximum discharge, 1,820 ft^3/s (51.5 m^3/s) Oct. 1, 1920 (gage height, 9.50 ft or 2.896 m, from graph based on gage readings, site and datum then in use), from rating curve extended above 900 ft^3/s (25.5 m^3/s); minimum, 0.1 ft^3/s (0.003 m^3/s) Aug. 18, 1950, Aug. 3, 4, 31, Sept. 1, 3, 1953. Maximum discharge since construction of East Barre Detention Reservoir in 1935, 634 ft^3/s (18.0 m^3/s) Apr. 19, 1969 (gage height, 3.31 ft or 1.009 m, site and datum then in use); maximum gage height, 9.48 ft or 2.890 m Jan. 7, 1973 (ice jam).

REMARKS.--Records good except those for winter period and period of no gage-height record, which are fair. Discharge affected by East Barre Detention Reservoir since 1935 (see p. 234). Prior to 1964, occasional diurnal fluctuation at low flow caused by mill above station. Diversion from reservoir on Orange Brook, a tributary above station, for city of Barre.

REVISIONS (WATER YEARS).--WSP 564: 1922. WSP 1034: Drainage area. WSP 1307: 1921-23(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	55	45	105	55	48	46	260	120	41	57	7.0
2	49	69	38	80	45	50	48	170	60	28	27	5.4
3	51	63	33	65	38	43	83	130	45	17	16	25
4	51	42	30	45	31	51	374	179	35	22	66	72
5	39	29	45	40	27	282	488	142	30	38	80	22
6	36	22	130	37	25	365	502	138	25	48	29	11
7	18	19	67	34	24	288	451	151	20	22	16	8.2
8	13	19	46	30	23	336	279	126	18	29	11	7.3
9	11	19	51	27	22	130	130	102	17	18	8.9	6.4
10	9.5	18	166	35	21	80	138	124	16	21	7.6	5.1
11	10	15	82	29	21	75	128	167	40	13	7.3	14
12	8.9	13	57	27	20	65	122	147	26	10	6.1	8.2
13	8.2	14	49	25	19	60	130	321	20	8.0	4.3	13
14	7.6	17	132	26	18	55	242	170	15	6.5	4.0	25
15	7.3	52	194	27	18	50	488	91	13	29	3.8	12
16	8.2	242	63	25	17	48	488	72	12	20	3.5	7.6
17	12	120	60	22	16	157	439	76	70	7.2	4.0	7.3
18	10	57	56	20	16	120	368	68	150	5.0	24	7.6
19	8.9	39	54	19	16	60	282	56	50	100	8.2	7.6
20	7.6	30	52	18	15	50	214	50	25	168	5.4	11
21	7.6	36	390	18	15	100	217	45	15	41	4.3	64
22	7.0	35	565	60	21	80	299	40	14	20	3.8	124
23	6.6	43	485	40	300	58	383	150	12	13	3.5	35
24	6.4	38	386	35	300	82	395	230	11	8.3	3.5	21
25	6.0	46	205	32	85	115	333	250	19	7.0	3.5	17
26	5.8	38	155	30	65	78	197	260	15	6.0	3.5	25
27	5.6	30	336	55	55	60	155	230	29	5.4	2.8	19
28	5.6	64	359	150	48	57	166	190	21	4.8	2.8	15
29	5.4	77	202	100	------	54	194	160	12	5.5	6.4	80
30	52	54	144	65	------	49	214	130	19	214	28	114
31	41	------	126	60	------	46	------	110	------	77	11	------
TOTAL	531.2	1,415	4,803	1,381	1,376	3,192	7,993	4,535	974	1,052.7	462.2	796.7
MEAN	17.1	47.2	155	44.5	49.1	103	266	146	32.5	34.0	14.9	26.6
MAX	52	242	565	150	300	365	502	321	150	214	80	124
MIN	5.4	13	30	18	15	43	46	40	11	4.8	2.8	5.1
MEAN†	17.5	47.8	156	45.0	47.8	103	270	144	30.7	34.6	14.1	27.5
CFSM†	.45	1.23	4.01	1.16	1.23	2.65	6.94	3.70	.79	.89	.36	.71
IN.†	.52	1.37	4.63	1.33	1.28	3.05	7.73	4.26	.88	1.02	.42	.79

CAL YR 1973 TOTAL 35,121.3 MEAN 96.2 MAX 576 MIN 4.2 MEAN† 96.3 CFSM† 2.48 IN† 33.61
WTR YR 1974 TOTAL 28,511.8 MEAN 78.1 MAX 565 MIN 2.8 MEAN† 78.2 CFSM† 2.01 IN† 27.30

† Adjusted for change in contents in East Barre Detention Reservoir.
NOTE.--No gage-height record May 19 to June 25.

04285500 NORTH BRANCH WINOOSKI RIVER AT WRIGHTSVILLE, VT.

LOCATION.--Lat 44°17'58", long 72°34'45", Washington County, on right bank at Wrightsville, 0.8 mi (1.3 km) downstream from Wrightsville Detention Reservoir and 3.5 mi (5.6 km) upstream from mouth.

DRAINAGE AREA.--69.2 mi² (179.2 km²).

PERIOD OF RECORD.--October 1933 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 550.53 ft (167.802 m) above mean sea level (levels by Corps of Engineers). Prior to Nov. 21, 1934, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--41 years, 132 ft³/s (3.738 m³/s), 25.90 in/yr (658 mm/yr), adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 750 ft³/s (21.2 m³/s) Apr. 24 (gage height, 3.58 ft or 1.091 m); maximum gage height, 4.10 ft (1.250 m) Dec. 25 (backwater from ice); minimum daily discharge, 12 ft³/s (0.34 m³/s) Aug. 16, 26.

Period of record: Maximum discharge, 2,170 ft³/s (61.5 m³/s) Apr. 12, 1934 (gage height, 6.53 ft or 1.990 m), from rating curve extended above 920 ft³/s (26.1 m³/s); minimum daily, 0.2 ft³/s (0.006 m³/s) Aug. 13, 1941. Maximum discharge since construction of Wrightsville Detention Reservoir in 1935, 1,040 ft³/s (29.5 m³/s) Mar. 21, 1936 (gage height, 4.32 ft or 1.317 m); maximum gage height, 5.43 ft (1.655 m) Mar. 12, 1936 (ice jam).

Maximum discharge since at least 1830, 17,200 ft³/s (487 m³/s) Nov. 3, 1927, by computation of peak flow over dam 0.8 mi (1.3 km) above gage.

REMARKS.--Records good except those for winter period, which are fair. Discharge affected since 1935 by Wrightsville Detention Reservoir (see following page). Occasional diurnal fluctuation at low flow caused by small mill above station; more frequent diurnal fluctuation prior to 1968.

REVISIONS (WATER YEARS).--WSP 1237: 1937: 1934-39.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	50	85	205	441	165	134	69	639	299	211	76	28
2	46	161	144	375	125	129	74	620	207	119	53	22
3	152	194	125	246	105	115	124	587	139	86	45	34
4	369	149	124	130	80	113	314	560	153	114	43	99
5	372	110	164	115	72	280	506	526	119	98	44	58
6	444	92	333	105	65	454	581	483	96	91	40	39
7	419	82	358	100	63	498	572	437	142	71	36	33
8	363	78	317	82	61	547	551	382	92	117	30	27
9	273	74	211	70	58	530	510	318	76	83	25	22
10	117	66	280	90	56	490	464	217	66	222	22	20
11	95	63	263	82	54	441	410	238	91	131	19	31
12	87	61	173	74	53	372	348	190	74	95	17	26
13	78	63	117	68	50	200	294	375	58	67	16	26
14	75	66	192	70	48	108	287	392	50	52	15	21
15	73	99	303	72	45	99	526	356	44	105	13	17
16	82	310	201	66	43	94	598	309	41	116	12	14
17	82	351	134	60	42	108	594	192	144	65	27	13
18	71	332	130	56	41	100	616	150	325	51	106	14
19	64	161	125	52	40	80	625	122	279	194	48	16
20	61	120	115	49	40	75	620	104	138	309	35	19
21	63	95	375	47	40	73	611	92	99	159	29	36
22	59	129	616	90	49	75	629	87	84	77	22	79
23	54	144	603	78	300	70	700	278	77	59	17	52
24	52	124	550	76	380	82	734	402	63	53	15	40
25	50	201	510	70	310	90	734	442	92	48	14	34
26	49	166	480	65	175	85	719	469	78	42	12	39
27	48	145	534	105	135	80	695	503	171	41	13	41
28	45	267	576	290	137	75	671	486	125	44	29	36
29	44	307	564	239	------	68	657	451	82	49	27	202
30	53	296	534	173	------	70	647	403	70	187	40	405
31	79	------	487	160	------	68	------	343	------	130	35	------
TOTAL	3,969	4,591	9,843	3,796	2,832	5,803	15,480	11,153	3,574	3,286	975	1,543
MEAN	128	153	318	122	101	187	516	360	119	106	31.5	51.4
MAX	444	351	616	441	380	547	734	639	325	309	106	405
MIN	44	61	115	47	40	68	69	87	41	41	12	13
MEAN†	128	156	338	101	99.8	187	589	293	116	106	30.9	65.4
CFSM†	1.85	2.25	4.88	1.46	1.44	2.70	8.51	4.23	1.68	1.53	.45	.95
IN. †	2.14	2.51	5.64	1.68	1.50	3.11	9.49	4.88	1.86	1.77	.52	1.05

CAL YR 1973 TOTAL 88,849 MEAN 243 MAX 793 MIN 12 MEAN† 245 CFSM† 3.54 IN† 48.14
WTR YR 1974 TOTAL 66,845 MEAN 183 MAX 734 MIN 12 MEAN† 184 CFSM† 2.66 IN† 36.16

† Adjusted for change in contents in Wrightsville Detention Reservoir.

Reservoirs in Winooski River basin above Montpelier, Vt.

04283500 **EAST BARRE DETENTION RESERVOIR.**--Lat 44°09'18", long 72°26'42", Washington County, at dam on Jail Branch at East Barre, 4.5 mi (7.2 km) upstream from mouth. Drainage area, 38.8 mi² (100.5 km²). Period of record, February 1936 (in WSP 1307), March and April 1936 (in WSP 798), May 1936 to August 1938 (in WSP 1307), September 1938 (in WSP 867), October 1938 to current year. Water-stage recorder. Datum of gage is at mean sea level (levels by Corps of Engineers). Prior to Aug. 30, 1960, nonrecording gage, and Aug. 30 to Sept. 30, 1960, water-stage recorder, at present site at datum 1,127.9 ft (343.78 m) above mean sea level. Maximum elevation for current year, 1,146.06 ft (349.319 m) Dec. 22. Maximum elevation for period of record, 1,163.9 ft (354.76 m), present datum, Mar. 22, 1936.

Reservoir is formed by earthfill dam completed by Corps of Engineers in 1935 for flood control. Usable capacity of reservoir, 525,000,000 ft³ (14,900,000 m³) between elevation 1,124.9 ft or 342.87 m (bottom of outlet opening) and 1,165.0 ft or 355.09 m (crest of spillway). Dam has no gates; below elevation 1,165.0 ft (355.09 m), outflow from reservoir is dependent on capacity of outlet opening near base of dam. Outlet-opening enlargement and reservoir-construction modifications completed in November 1959. Size of opening since enlargement, height, 7 ft (2.1 m) and average width, 3.7 ft (1.13 m). Figures given herein represent usable contents.

04285000 **WRIGHTSVILLE DETENTION RESERVOIR.**--Lat 44°18'38", long 72°34'31", Washington County, at dam on North Branch Winooski River at Wrightsville, 0.3 mi (0.5 km) downstream from Long Meadow Brook and 4.2 mi (6.8 km) upstream from mouth. Drainage area, 66.5 mi² (172.2 km²). Period of record, November 1935 to February 1936 (in WSP 1307), March to May 1936 (in WSP 798), June 1936 to August 1938 (in WSP 1307), September 1938 (in WSP 867), October 1938 to current year. Water-stage recorder. Datum of gage is at mean sea level (levels by Corps of Engineers). Prior to July 28, 1960, nonrecording gage, and July 28 to Sept. 30, 1960, water-stage recorder, at present site at datum 612.75 ft (186.766 km) above mean sea level. Extremes for current year: Maximum elevation not determined, occurred about Dec. 22 during period of no gage-height record; minimum, 620.06 ft (188.994 m) Aug. 17. Extremes for period of record: Maximum elevation, 676.4 ft (206.17 m), present datum, Mar. 22, 1936, from graph based on gage readings; minimum observed, 613.0 ft (186.84 m) Aug. 17, 1949, and Aug. 17-19, 1950.

Reservoir is formed by earthfill dam completed by Corps of Engineers in 1935 for flood control; modification of intake-structure works to create a recreational pool completed in June 1965. Usable capacity for recreation, 22,00,000 ft³ (620,000 m³) between elevations 612.75 ft or 186.766 (bottom of outlet opening) and 620.00 ft (188.976 m); for flood control, 851,500,000 ft³ (24,110,000 m³) between elevations 620.00 ft (188.976 m) and 685.00 ft or 208.788 m (crest of spillway); total usable capacity, 873,500,000 ft³ (24,740,000 m³). Dam has no gates; below elevation 685.00 ft (208.788 m), outflow from reservoir is dependent on capacity of outlet opening, 5.25 ft (1.600 m) square near base of dam. Figures given herein represent usable contents.

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

Date	Elevation (feet)	Contents (millions of cubic feet)	Change in contents	
			Millions of cubic feet	Equivalent, cubic feet per second
		04283500 East Barre Detention Reservoir		
Sept. 30	1,127.79	3.0	-	-
Oct. 31	1,128.70	4.0	+1.0	+0.37
Nov. 30	1,130.07	5.6	+1.6	+.62
Dec. 31	1,132.51	9.0	+3.4	+1.27
CAL YR 1973	-	-	+2.3	+.07
Jan. 31	1,133.24	10.1	+1.1	+.41
Feb. 28	1,131.01	6.9	-3.2	-1.32
Mar. 31	1,131.18	7.1	+.2	+.07
Apr. 30	1,135.84	15.1	+8.0	+3.09
May 31	1,132.16	8.5	-6.6	-2.46
June 30	1,128.66	4.0	-4.5	-1.74
July 31	1,130.02	5.6	+1.6	+.60
Aug. 31	1,128.06	3.3	-2.3	-.86
Sept. 30	1,130.22	5.8	+2.5	+.96
WTR YR 1974	-	-	+2.8	+.09
		04285000 Wrightsville Detention Reservoir		
Sept. 30	620.38	23.5	-	-
Oct. 31	620.50	24.0	+0.5	+0.19
Nov. 30	*622.1	30.6	+6.6	+2.55
Dec. 31	*632.0	86.4	+55.8	+20.8
CAL YR 1973	-	-	+61.2	+1.94
Jan. 31	*621.6	28.4	-58.0	-21.7
Feb. 28	620.78	25.1	-3.3	-1.36
Mar. 31	620.52	24.1	-1.0	-.37
Apr. 30	645.94	212.3	+188.2	+72.6
May 31	622.77	33.4	-178.9	-66.8
June 30	620.57	24.2	-9.2	-3.55
July 31	620.68	24.7	+.5	+.19
Aug. 31	620.33	23.3	-1.4	-.52
Sept. 30	627.94	59.4	+36.1	+13.9
WTR YR 1974	-	-	+35.9	+1.14

* Estimated.

04286000 WINOOSKI RIVER AT MONTPELIER, VT.

LOCATION.--Lat 44°15'23", long 72°35'36", Washington County, on right bank 0.4 mi (0.6 km) upstream from Dog River and 1 mi (1.6 km) downstream from depot at Montpelier.

DRAINAGE AREA.--397 mi² (1,028 km²).

PERIOD OF RECORD.--May 1909 to June 1914 (fragmentary), July 1914 to September 1923, August 1928 to current year.

GAGE.--Water-stage recorder. Datum of gage is 499.99 ft (152.397 m) above mean sea level. Prior to June 16, 1914, nonrecording gage at site 0.9 mi (1.4 km) upstream at different datum. June 16 to July 3, 1914, nonrecording gage at present site and datum.

AVERAGE DISCHARGE.--55 years (1914-23, 1928-74), 581 ft³/s (16.45 m³/s), 19.87 in/yr (505 mm/yr), adjusted for storage since October 1935.

EXTREMES.--Current year: Maximum discharge, 7,280 ft³/s (206 m³/s) Dec. 21 (gage height, 12.00 ft or 3.658 m); maximum gage height, 13.26 ft (4.042 m) Dec. 21 (ice jam); minimum daily discharge, 103 ft³/s (2.92 m³/s) Sept. 17.

Period of record: Maximum discharge, 17,200 ft³/s (487 m³/s) Apr. 7, 1912, (gage height, 17.31 ft or 5.276 m, from floodmarks, present datum), from rating curve extended above 6,900 ft³/s (195 m³/s); maximum gage height, 17.55 ft or 5.349 m June 30, 1973; minimum daily discharge, 17 ft³/s (0.48 m³/s) Sept. 3, 1933.

Maximum discharge since at least 1830, 57,000 ft³/s (1,610 m³/s) Nov. 3, 1927 (gage height, 27.1 ft or 8.26 m), from rating curve extended above 6,900 ft³/s (195 m³/s).

REMARKS.--Records good except those for winter period, which are fair. Flow regulated by several small powerplants above station, by Peacham Pond and, since 1926, by Mollys Falls Reservoir (combined usable capacity, 492,000,000 ft³ or 13,900,000 m³), which regulate runoff from 24 mi² (62 km²), and by East Barre and Wrightsville Detention Reservoirs since 1935 (see preceding page). See table below for monthend contents in Peacham Pond and Mollys Falls Reservoir.

REVISIONS (WATER YEARS).--WSP 424: 1915. WSP 894: Drainage area. WSP 1437: 1912-14(M), 1915-18, 1919(M), 1920, 1921(M), 1922-23, 1929, 1933, 1934(M), 1936, 1937(M), 1938, 1946(M). WRD Mass., N.H., R.I., Vt., 1972: 1969(M), 1970(P), 1971(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	198	405	702	1,550	900	620	440	2,610	1,220	865	544	181
2	230	657	544	1,350	700	700	600	2,290	1,070	685	391	149
3	382	651	461	1,000	580	640	1,190	1,850	863	461	317	198
4	821	605	456	900	510	660	3,840	2,080	903	495	290	549
5	878	442	500	860	450	2,700	4,640	1,780	814	461	386	405
6	1,020	409	1,010	740	430	2,890	3,500	1,570	725	451	313	261
7	784	386	1,020	580	440	3,140	2,550	1,570	696	377	264	207
8	615	351	796	520	420	2,970	2,450	1,450	594	456	250	181
9	530	317	646	550	430	1,840	1,970	1,290	475	510	250	162
10	395	286	1,160	700	390	1,550	1,710	1,230	446	594	214	152
11	368	261	987	650	410	1,350	1,620	1,410	584	636	173	189
12	330	254	742	620	420	1,100	1,490	1,190	539	432	157	189
13	279	250	535	580	420	850	1,490	2,440	465	355	175	184
14	250	257	1,010	600	410	660	2,110	1,810	428	272	167	192
15	246	309	1,630	620	380	600	4,640	1,490	400	290	159	165
16	317	1,450	700	590	360	540	3,330	1,240	309	569	154	140
17	286	1,270	450	520	360	720	2,760	1,100	480	428	154	103
18	294	885	520	450	340	700	2,930	1,000	1,170	313	382	131
19	290	662	550	410	340	580	2,630	853	872	840	250	149
20	279	480	600	400	370	540	2,280	731	579	1,340	211	140
21	240	423	3,500	380	370	450	2,200	690	515	802	184	227
22	223	437	4,700	540	480	450	2,500	673	451	465	170	641
23	254	525	2,900	640	2,000	540	3,600	1,320	386	368	159	351
24	261	480	2,000	700	1,500	640	3,850	1,790	355	334	157	250
25	272	535	1,600	630	1,100	680	3,350	1,920	456	368	122	204
26	261	589	1,650	600	900	530	2,630	1,970	456	321	115	204
27	254	480	3,240	1,100	720	490	2,270	1,910	554	290	113	214
28	204	690	3,240	1,900	640	460	2,130	1,650	530	243	192	192
29	186	995	2,410	1,430	------	410	2,120	1,490	409	236	189	490
30	268	859	1,940	1,350	------	450	2,230	1,370	342	860	268	1,020
31	470	------	1,700	1,200	------	430	------	1,230	------	772	236	------
TOTAL	11,685	16,600	43,899	24,660	16,770	30,880	75,050	46,997	18,086	15,889	7,106	7,820
MEAN	377	553	1,416	795	599	996	2,502	1,516	603	513	229	261
MAX	1,020	1,450	4,700	1,900	2,000	3,140	4,640	2,610	1,220	1,340	544	1,020
MIN	186	250	450	380	340	410	440	673	309	236	113	103
(†)	262.9	300.3	314.2	248.2	130.7	166.2	446.0	453.5	427.2	415.7	371.6	405.3
MEAN ‡	335	571	1,443	750	548	1,009	2,685	1,450	587	509	211	289
CFSM ‡	.84	1.44	3.63	1.89	1.38	2.54	6.76	3.65	1.48	1.28	.53	.73
IN.‡	.97	1.60	4.19	2.18	1.44	2.93	7.55	4.21	1.65	1.48	.61	.81

CAL YR 1973 TOTAL 373,537 MEAN 1,023 MAX 8,240 MIN 143 MEAN‡ 1,025 CFSM‡ 2.58 IN‡ 35.07
WTR YR 1974 TOTAL 315,442 MEAN 864 MAX 4,700 MIN 103 MEAN‡ 866 CFSM‡ 2.18 IN‡ 29.63

PEAK DISCHARGE (BASE, 3,900 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-21	2030	12.00	7,280	4-15	0545	9.92	5,210
3-7	2000	9.42	4,760	4-24	1915	8.72	4,130
4-4	2030	10.25	5,530				

† Monthend contents, in millions of cubic feet, in Peacham Pond and Mollys Falls Reservoir; records furnished by Green Mountain Power Corp.

‡ Adjusted for change in contents in Peacham Pond, Mollys Falls Reservoir, and East Barre and Wrightsville Detention Reservoirs.

04287000 DOG RIVER AT NORTHFIELD FALLS, VT.

LOCATION.--Lat 44°10'58", long 72°38'27", Washington County, on right bank 1 mi (1.6 km) downstream from Northfield Falls, and 1.2 mi (1.9 km) downstream from Cox Branch.

DRAINAGE AREA.--76.1 mi^2 (197.1 km^2).

PERIOD OF RECORD.--October 1934 to current year. October 1934 monthly discharge only, published in WSP 1307.

GAGE.--Water-stage recorder. Datum of gage is 603.00 ft (183.794 m) above mean sea level (levels by Corps of Engineers).

AVERAGE DISCHARGE.--40 years, 120 ft^3/s (3.398 m^3/s), 21.41 in/yr (544 mm/yr).

EXTREMES.--Current year: Maximum discharge, 3,880 ft^3/s (110 m^3/s) Dec. 21 (gage height, 6.94 ft or 2.115 m), from rating curve extended above 1,500 ft^3/s (42.5 m^3/s) as explained below; minimum, 18 ft^3/s (0.51 m^3/s) Aug. 16, 17, 26-28, 29.

Period of record: Maximum discharge, 10,600 ft^3/s (300 m^3/s) June 30, 1973 (gage height, 11.57 ft or 3.527 m), from rating curve extended above 1,500 ft^3/s (42.5 m^3/s) on basis of computation of flow over dam at gage height 8.49 ft (2.588 m) and slope-area measurements at gage heights 8.96, 11.53, and 11.57 ft (2.731, 3.514, and 3.527 m); minimum, 4.3 ft^3/s (0.12 m^3/s) Aug. 31, Sept. 7, 1942.

REMARKS.--Records good except those for winter period, which are fair. Infrequent diurnal fluctuation at low flow by powerplant above station; regulation much greater prior to 1955.

REVISIONS (WATER YEARS).--WSP 1237: 1935-37.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	28	73	130	251	200	145	96	392	140	87	41	23
2	28	88	111	202	150	140	102	282	122	67	32	21
3	74	101	103	193	125	125	210	249	115	60	29	32
4	128	85	103	180	115	165	817	305	133	55	44	68
5	119	72	110	160	105	996	1.470	235	108	53	54	42
6	127	65	188	150	105	729	688	209	96	56	37	30
7	83	61	143	110	105	982	440	272	88	49	30	26
8	68	59	118	92	105	692	430	222	78	46	28	24
9	59	57	118	110	97	371	318	196	73	41	26	23
10	54	53	233	130	94	295	292	214	68	50	25	22
11	50	51	183	115	90	240	270	222	90	41	23	24
12	48	50	146	100	88	195	255	226	71	42	22	22
13	46	52	115	98	84	180	301	660	62	36	21	29
14	44	52	176	96	80	150	542	338	58	34	20	52
15	43	86	209	94	78	145	1.310	269	56	38	20	31
16	48	425	145	86	73	130	672	227	52	43	19	25
17	48	227	115	80	69	125	571	217	126	35	27	23
18	44	150	125	75	66	115	647	191	179	31	53	24
19	42	121	120	80	66	110	531	167	93	52	30	23
20	41	103	135	73	64	105	424	149	78	56	24	23
21	40	91	1.700	75	62	87	434	137	70	39	22	36
22	38	102	842	85	115	105	597	128	70	34	21	77
23	37	99	425	95	570	115	705	188	63	31	20	46
24	37	93	290	105	300	130	594	214	57	29	20	36
25	35	107	290	96	223	125	436	241	62	28	20	32
26	41	94	420	90	176	120	362	226	62	26	19	39
27	39	92	1.120	290	150	105	304	200	89	26	18	35
28	36	170	660	394	137	99	289	179	73	27	19	31
29	34	215	436	273	------	96	287	162	62	27	24	118
30	59	153	350	224	------	97	283	151	59	71	36	149
31	81	------	282	252	------	94	------	136	------	50	27	------
TOTAL	1.699	3.247	9.641	4.454	3.692	7.308	14.677	7.204	2.553	1.360	851	1.186
MEAN	54.8	108	311	144	132	236	489	232	85.1	43.9	27.5	39.5
MAX	128	425	1.700	394	570	996	1.470	660	179	87	54	149
MIN	28	50	103	73	62	87	96	128	52	26	18	21
CFSM	.72	1.42	4.09	1.89	1.73	3.10	6.43	3.05	1.12	.58	.36	.52
IN.	.83	1.59	4.71	2.18	1.80	3.57	7.17	3.52	1.25	.66	.42	.58

CAL YR 1973 TOTAL 73.768 MEAN 202 MAX 4.220 MIN 23 CFSM 2.65 IN 36.06
WTR YR 1974 TOTAL 57.872 MEAN 159 MAX 1.700 MIN 18 CFSM 2.09 IN 28.29

PEAK DISCHARGE (BASE, 1,600 ft^3/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-21	1730	6.94	3,880	3-7	1915	4.70	1,670
12-27	0900	4.72	1,680	4-5	0545	4.98	1,880
3-5	1530	4.81	1,750	4-15	0230	4.81	1,750

04287300 SUNNY BROOK NEAR MONTPELIER, VT.
(Formerly published as Sonny Brook near Montpelier, Vt)

LOCATION.--Lat 44°16'08", long 72°37'37", Washington County, on left bank 20 ft (6 m) upstream from culvert on U. S. Highway 2, 1,000 ft (300 m) upstream from mouth, and 2.5 mi (4.0 km) west of Montpelier.

DRAINAGE AREA.--2.31 mi^2 (5.98 km^2).

PERIOD OF RECORD.--October 1963 to September 1974 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 510 ft (155 m) from topographic map.

AVERAGE DISCHARGE.--11 years, 3.45 ft^3/s (0.098 m^3/s), 20.28 in/yr (515 mm/yr).

EXTREMES.--Current year: Maximum discharge, 232 ft^3/s (6.57 m^3/s) Dec. 21 (gage height, 6.35 ft or 1.935 m), from rating curve extended above 55 ft^3/s (1.56 m^3/s) as explained below; minimum, 0.09 ft^3/s (0.003 m^3/s) June 15-17.

Period of record: Maximum discharge, 342 ft^3/s (9.69 m^3/s) June 13, 1973 (gage height, 7.40 ft or 2.256 m), from rating curve extended above 55 ft^3/s (1.56 m^3/s) on basis of computation of flow through culvert at gage height 7.23 ft (2.204 m); minimum, 0.01 ft^3/s (<0.001 m^3/s) Aug. 19-22, 1964.

REMARKS.--Records fair. Recording rain gage at station since April 1964 (no winter records).

DISCHARGE. IN CUBIC FEET PER SECOND. WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.47	4.6	2.5	14	4.1	3.3	2.8	19	6.8	12	.75	.25
2	.51	4.6	1.8	10	3.2	3.2	3.5	14	3.5	3.2	.63	.25
3	5.8	7.9	1.5	7.0	2.6	3.1	7.0	13	3.5	1.6	.61	1.9
4	3.3	5.1	1.5	5.0	2.3	3.5	35	15	3.4	1.9	.56	1.5
5	5.6	3.6	1.8	4.2	2.2	30	63	12	1.6	1.1	.55	.46
6	3.9	3.1	5.8	3.6	2.1	26	31	11	1.3	.86	.47	.35
7	2.4	2.5	3.2	3.0	2.0	31	23	12	.65	.70	.39	.28
8	1.9	2.5	2.1	2.9	2.0	15	22	9.8	.39	.59	.39	.21
9	1.3	2.0	2.7	3.9	1.9	9.0	20	8.8	.30	.53	.39	.21
10	.82	1.6	5.9	3.6	1.8	7.2	19	10	.22	.74	.38	.19
11	.80	1.5	5.1	3.1	1.8	6.2	19	9.2	2.2	.46	.31	.33
12	.80	1.5	2.6	2.8	1.7	5.5	19	11	.28	.44	.31	.17
13	.80	1.3	1.6	2.6	1.6	4.9	22	23	.18	.40	.25	.27
14	.80	1.3	12	2.5	1.6	4.5	35	15	.15	.34	.25	.19
15	1.1	4.4	11	2.4	1.5	4.2	44	13	.11	1.1	.25	.15
16	1.7	17	4.9	2.3	1.5	4.1	25	9.6	.09	.42	.28	.13
17	1.9	10	2.5	2.2	1.5	4.0	24	8.0	12	.27	2.5	.13
18	1.5	6.7	1.9	2.2	1.5	3.9	24	6.7	24	.25	.69	.15
19	2.5	5.2	1.6	2.2	1.5	3.8	19	5.1	8.3	11	.37	.11
20	2.7	4.4	1.5	2.3	1.5	3.7	15	3.9	4.6	7.7	.31	.14
21	1.9	3.3	75	3.0	1.5	3.5	14	2.9	2.2	2.4	.32	.41
22	1.2	4.6	25	4.0	6.0	3.6	16	3.1	1.5	1.3	.31	.25
23	2.2	3.0	20	3.2	17	3.8	18	13	.95	.90	.25	.14
24	3.0	3.0	16	3.6	8.0	4.2	24	14	1.2	.80	.25	.12
25	2.0	4.7	12	3.3	5.0	4.0	19	14	1.2	.70	.25	.11
26	1.7	2.6	25	3.2	4.0	3.5	16	20	1.8	.49	.28	.15
27	1.9	3.5	34	10	3.6	3.3	14	16	2.5	.65	.40	.11
28	1.7	6.3	25	11	3.4	3.0	13	12	.78	.65	.74	.11
29	1.5	6.0	20	7.0	------	3.3	13	9.7	.56	.56	.75	8.8
30	3.5	3.4	19	6.0	------	2.9	14	7.6	.73	3.7	.76	4.7
31	3.5	------	17	7.0	------	2.8	------	5.9	------	1.1	.40	------
TOTAL	64.70	131.2	361.5	143.1	88.4	214.0	633.3	347.3	86.99	58.85	15.35	22.27
MEAN	2.09	4.37	11.7	4.62	3.16	6.90	21.1	11.2	2.90	1.90	.50	.74
MAX	5.8	17	75	14	17	31	63	23	24	12	2.5	8.8
MIN	.47	1.3	1.5	2.2	1.5	2.8	2.8	2.9	.09	.25	.25	.11
CFSM	.90	1.89	5.06	2.00	1.37	2.99	9.13	4.85	1.26	.82	.22	.32
IN.	1.04	2.11	5.82	2.30	1.42	3.45	10.20	5.59	1.40	.95	.25	.36

CAL YR 1973 TOTAL 2,335.42 MEAN 6.40 MAX 128 MIN .36 CFSM 2.77 IN 37.61
WTR YR 1974 TOTAL 2,166.96 MEAN 5.94 MAX 75 MIN .09 CFSM 2.57 IN 34.90

PEAK DISCHARGE (BASE, 55 ft^3/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-21	1330	6.35	232	4-5	0430	4.36	84
12-27	0700	4.00	64	4-15	0030	4.37	84
3-5	-	-	*60	6-17	2300	4.58	97
3-7	-	-	*65	7-19	1145	3.91	60

* About.

04288000 MAD RIVER NEAR MORETOWN, VT.

LOCATION.--Lat 44°16'42", long 72°44'37", Washington County, on left bank at downstream side of highway bridge, 2.4 mi (3.9 km) downstream from Moretown, and 3.8 mi (6.1 km) upstream from mouth.

DRAINAGE AREA.--139 mi^2 (360 km^2).

PERIOD OF RECORD.--July to November 1910, October 1928 to current year. October 1928 monthly discharge only, published in WSP 1307.

GAGE.--Water-stage recorder. Concrete control since Oct. 13, 1933. Datum of gage is 543.93 ft (165.790 m) above mean sea level (levels by Vermont Department of Highways). July 6 to Nov. 4, 1910, nonrecording gage at same site at different datum. Nov. 20, 1928, to Sept. 27, 1930, nonrecording gage at same site at present datum.

AVERAGE DISCHARGE.--46 years (1928-74), 250 ft^3/s (7.080 m^3/s), 24.42 in/yr (620 mm/yr).

EXTREMES.--Current year: Maximum discharge, 7,390 ft^3/s (209 m^3/s) Dec. 21 (gage height, 9.93 ft or 3.027 m), from rating curve extended above 2,100 ft^3/s (59.5 m^3/s) as explained below; maximum gage height, 13.79 ft (4.203 m) Mar. 5 (ice jam); minimum discharge, 32 ft^3/s (0.91 m^3/s) Aug. 16, 17.

Period of record: Maximum discharge, 18,400 ft^3/s (521 m^3/s) Sept. 22, 1938 (gage height, 16.34 ft or 4.980 m, from floodmarks), from rating curve extended above 2,700 ft^3/s (76.5 m^3/s) on basis of computations of flow over dam at gage heights 9.98, 11.51, 16.34, and 19.4 ft (3.042, 3.508, 4.980 and 5.91 m); minimum, 1.4 ft^3/s (0.040 m^3/s) Oct. 1, 1930.

Maximum discharge since at least 1830, 23,000 ft^3/s (651 m^3/s) Nov. 3, 1927 (gage height, 19.4 ft or 5.91 m, from floodmarks), by computation of peak flow over dam.

REMARKS.--Records good except those for winter period, which are fair. Occasional diurnal fluctuation at low flow; much greater regulation prior to 1958. Records of suspended-sediment loads for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 744: Drainage area. WSP 854: 1934(M). WSP 1114: 1929, 1930(M), 1936-37.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	66	255	300	469	500	230	146	1,030	324	284	101	42
2	63	304	265	350	300	220	170	652	265	160	70	37
3	195	361	232	330	230	200	466	526	262	120	59	43
4	320	243	231	310	290	250	2,210	602	349	107	58	213
5	356	165	254	280	180	2,200	3,170	527	239	93	46	98
6	345	156	720	253	175	1,700	1,250	446	206	96	58	67
7	204	142	415	210	170	2,200	708	535	173	82	56	55
8	153	135	306	180	160	1,500	682	462	144	75	50	49
9	128	126	284	200	150	700	458	373	131	66	51	45
10	113	114	551	250	145	500	460	448	119	101	47	43
11	104	108	342	210	140	370	462	493	160	76	43	63
12	94	107	309	190	135	310	438	460	118	82	40	47
13	90	110	257	185	130	280	536	1,350	104	63	37	71
14	91	114	362	160	125	240	1,050	685	95	55	35	195
15	90	235	425	170	120	220	2,830	521	89	97	34	85
16	124	1,010	310	160	115	200	1,120	438	80	100	32	63
17	120	477	270	150	105	190	854	411	361	64	136	53
18	109	314	240	140	100	180	928	361	292	54	206	63
19	93	254	250	150	100	170	797	308	168	225	74	54
20	83	211	330	135	100	160	847	271	149	167	55	54
21	87	181	4,070	140	95	135	660	245	118	87	46	90
22	84	276	1,560	155	170	160	1,020	233	115	67	41	221
23	81	257	740	175	1,300	190	1,740	614	99	57	38	128
24	74	217	520	190	600	220	1,200	596	97	59	39	98
25	76	262	500	175	400	210	842	552	136	56	45	81
26	75	212	1,680	165	300	200	704	498	122	51	36	83
27	73	197	2,580	450	250	165	561	451	187	57	36	75
28	70	450	1,400	734	220	160	548	406	154	61	48	67
29	68	617	874	517	------	160	695	356	109	53	47	411
30	200	377	725	407	------	155	848	319	105	261	77	403
31	284	------	520	480	------	145	------	278	------	133	55	------
TOTAL	4,088	8,012	21,863	8,087	6,715	13,920	28,250	15,617	5,057	3,109	1,866	3,147
MEAN	132	267	705	261	240	449	942	504	169	100	60.2	105
MAX	356	1,010	4,070	734	1,300	2,200	3,170	1,350	361	284	206	411
MIN	63	107	231	135	95	135	146	233	80	51	32	37
CFSM	.95	1.92	5.07	1.88	1.73	3.23	6.78	3.63	1.22	.72	.43	.76
IN.	1.09	2.14	5.85	2.16	1.80	3.73	7.56	4.18	1.35	.83	.50	.84

CAL YR 1973 TOTAL 147,660 MEAN 405 MAX 4,770 MIN 36 CFSM 2.91 IN 34.52
WTR YR 1974 TOTAL 119,731 MEAN 328 MAX 4,070 MIN 32 CFSM 2.36 IN 32.04

PEAK DISCHARGE (BASE, 3,400 ft^3/s)

NOTE.--No gage-height record Mar. 6-26.

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-21	1700	9.93	7,390	3-7	-	-	*3,900
12-27	0830	7.64	4,140	4-4	2030	7.90	4,480
3-5	-	-	*4,100	4-15	0300	8.26	4,950

* About.

04288500 WATERBURY RESERVOIR NEAR WATERBURY, VT.

LOCATION.--Lat 44°22'54", long 72°46'13", Washington County, at dam on Little River, 2.7 mi (4.3 km) upstream from mouth and 3.5 mi (5.6 km) north of Waterbury.

DRAINAGE AREA.--109 mi^2 (282 km^2).

PERIOD OF RECORD.--September 1937 to current year. September 1937 to September 1938 monthend contents only, published in WSP 1307.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level (levels by Corps of Engineers). Prior to Dec. 10, 1938, nonrecording gage at same site and datum.

EXTREMES.--Current year: Maximum elevation, 596.75 ft (181.889 m) Dec. 29; minimum, 539.08 ft (164.312 m) Apr. 3.
Period of record: Maximum elevation, 613.45 ft (186.980 m) May 4, 1940; minimum observed, 501.3 ft (152.80 m) Oct. 16, 1938.

REMARKS.--Reservoir is formed by earthfill dam completed by Corps of Engineers during summer of 1937 for flood control and storage of water for power. Usable capacity for storage of water for power, 1,582,700,000 ft^3 (44,822,000 m^3) between elevations 500.0 ft or 152.40 m and 592.0 ft or 180.44 m (sill of taintor gate); for flood control, 1,229,600,000 ft^3 (34,822,000 m^3) between elevations 592.0 ft or 180.44 m and 617.5 ft or 188.21 m (crest of spillway); total usable capacity, 2,812,300,000 ft^3 (79,644,000 m^3).

Capacity table (elevation, in feet, and contents, in millions of cubic feet)

530.0	180.8	570.0	891.9
540.0	302.7	580.0	1,168.5
550.0	461.7	590.0	1,505.0
560.0	658.8	600.0	1,913.4

ELEVATION, IN FEET, AT 2400, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	588.28	587.33	591.19	595.20	583.46	568.27	542.72	585.08	591.01	589.61	589.27	587.34
2	587.87	587.91	590.81	594.48	583.32	567.68	540.39	585.02	591.69	589.93	588.93	587.40
3	588.46	588.65	590.54	593.77	583.14	566.95	540.00	584.74	591.61	589.78	589.12	587.71
4	589.34	589.32	590.15	593.01	582.69	566.41	547.40	585.28	591.80	590.02	589.37	588.09
5	590.63	589.07	590.01	592.20	582.14	571.63	556.84	584.95	591.61	590.07	589.27	588.29
6	591.04	589.02	591.31	591.40	581.49	573.15	558.85	584.47	591.13	590.33	588.77	588.40
7	590.44	588.70	591.07	590.70	580.85	575.60	558.94	584.00	590.78	590.59	588.46	588.53
8	590.11	588.62	591.17	590.23	580.16	576.63	558.81	583.34	590.61	590.11	588.07	588.63
9	590.10	588.41	590.92	589.55	579.83	576.22	558.13	582.59	590.42	589.56	587.61	588.71
10	589.84	588.66	590.89	589.01	579.60	575.51	557.27	582.62	590.00	589.67	587.73	588.85
11	589.61	588.88	590.61	588.40	578.83	574.55	556.64	582.49	589.58	589.76	587.84	588.94
12	589.27	588.53	590.65	587.78	578.05	573.42	557.76	582.29	589.17	589.71	587.45	589.03
13	589.55	588.59	590.40	587.19	577.28	572.13	557.35	584.02	588.84	589.99	587.09	589.17
14	589.85	588.76	590.29	586.88	576.50	571.00	558.67	584.01	588.50	590.23	587.18	589.24
15	589.53	589.31	590.30	586.66	575.61	569.72	565.51	583.75	588.71	590.13	587.16	589.30
16	589.21	590.66	590.77	586.40	574.76	568.53	566.81	583.97	588.66	590.19	587.21	589.39
17	588.82	591.26	590.54	586.11	573.89	567.55	567.36	584.15	589.28	589.56	587.83	589.47
18	588.29	591.50	590.13	585.48	573.01	566.20	568.44	584.95	589.98	588.88	588.26	589.59
19	587.74	591.33	589.57	585.39	572.15	564.84	569.07	585.56	590.21	589.33	588.06	589.66
20	588.04	590.85	589.50	585.28	571.17	563.33	569.27	585.69	590.11	590.36	587.80	589.84
21	588.32	590.36	593.62	584.91	570.26	561.82	569.80	585.87	589.66	590.73	587.58	590.22
22	588.02	590.34	594.39	584.55	569.90	560.32	573.13	586.09	589.35	590.36	587.28	590.69
23	587.61	590.27	594.09	584.04	571.38	558.76	577.84	588.86	589.69	589.69	587.06	590.63
24	587.16	590.56	593.41	583.62	571.26	557.38	579.90	590.52	589.43	589.04	587.17	590.80
25	586.83	591.18	592.67	583.03	570.77	555.88	580.35	591.47	589.12	588.45	587.26	590.72
26	586.70	590.95	593.41	582.82	570.17	554.22	580.43	592.01	588.66	588.06	587.11	590.70
27	586.90	590.53	595.88	583.86	569.48	552.51	580.23	592.06	588.58	588.25	587.19	590.65
28	587.10	590.45	596.70	584.27	568.77	550.74	580.52	591.81	588.40	588.44	587.16	590.41
29	586.60	591.11	596.66	583.86	------	548.81	582.26	591.37	588.69	588.24	587.08	591.04
30	586.62	591.28	596.31	583.64	------	546.93	583.79	590.96	588.93	589.12	587.08	591.47
31	586.86	------	595.73	583.59	------	544.92	------	590.71	------	589.22	587.23	------
MEAN	588.54	589.75	592.05	587.33	576.07	564.57	564.82	586.28	589.81	589.59	587.80	589.43
MAX	591.04	591.50	596.70	595.20	583.46	576.63	583.79	592.06	591.80	590.73	589.37	591.47
MIN	586.60	587.33	589.50	582.82	568.77	544.92	540.00	582.29	588.40	588.06	587.06	587.34
(†)	1,393.8	1,554.6	1,730.7	1,283.2	862.1	376.1	1,289.6	1,532.5	1,476.1	1,477.3	1,406.9	1,562.0
(‡)	-24.2	+62.0	+65.7	-167	-174	-181	+352	+90.7	-25.2	+3.81	-26.3	+59.8

CAL YR 1973 MEAN 588.26 MAX 601.31 MIN 562.03 (‡) +7.04
WTR YR 1974 MEAN 583.90 MAX 596.70 MIN 540.00 (‡) +3.28

† Contents, in millions of cubic feet, at end of month.
‡ Change in contents, equivalent in cubic feet per second.

04289000 LITTLE RIVER NEAR WATERBURY, VT.

LOCATION.--Lat 44°22'12", long 72°46'11", Washington County, on right bank 1 mi (1.6 km) downstream from Waterbury Reservoir, 1.7 mi 2.7 km) upstream from mouth, and 2.5 mi (4.0 km) north of Waterbury.

DRAINAGE AREA.--111 mi² (287 km²).

PERIOD OF RECORD.--July to October 1910 (gage heights only), October 1935 to current year. October, November 1935 monthly discharge only, published in WSP 1307. Prior to October 1962, published as Waterbury River near Waterbury.

GAGE.--Water-stage recorder. Concrete control since Dec. 8, 1937. Datum of gage is 428.00 ft (130.454 m) above mean sea level (levels by Corps of Engineers). July 7 to Oct. 31, 1910, nonrecording gage at site 2 mi (3 km) upstream at different datum.

AVERAGE DISCHARGE.--39 years, 232 ft³/s (6.570 m³/s), 28.38 in/yr (721 mm/yr), adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 730 ft³/s (20.7 m³/s) Dec. 28 (gage height, 8.10 ft or 2.469 m); minimum daily, 13 ft³/s (0.37 m³/s) Sept. 9.
Period of record: Maximum discharge, 6,520 ft³/s (185 m³/s) Mar. 18, 1936 (gage height, 19.38 ft or 5.907 m); minimum daily, 0.6 ft³/s (0.017 m³/s) several times during summers of 1938-39, 1941, and 1944. Maximum discharge since construction of Waterbury Reservoir in 1937, 4,080 ft³/s (116 m³/s) Dec. 9, 1937 (gage height, 14.88 ft or 4.535 m).

REMARKS.--Records excellent. Flow completely regulated by Waterbury Reservoir (see preceding page).

REVISIONS (WATER YEARS).--WSP 824: 1936.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	261	60	301	639	344	362	508	628	403	48	126	15
2	249	70	353	639	253	361	505	626	31	21	254	14
3	234	18	346	634	149	357	511	632	410	192	19	18
4	25	16	342	634	307	382	538	642	378	140	19	17
5	385	257	447	640	330	577	585	639	346	158	215	15
6	345	146	442	639	346	586	575	635	419	25	306	14
7	577	260	578	556	360	606	571	634	439	23	215	14
8	376	152	236	384	330	606	575	629	285	348	240	14
9	206	203	387	441	234	599	532	627	253	377	248	13
10	269	17	474	406	149	596	542	575	349	382	18	18
11	254	16	436	442	371	594	464	592	343	225	16	16
12	275	260	245	435	376	597	43	597	317	327	208	20
13	15	90	294	386	373	597	529	614	262	27	175	15
14	15	88	488	270	365	548	555	611	245	20	17	15
15	287	86	359	234	372	558	599	607	23	345	56	15
16	299	165	24	239	354	561	588	348	124	160	16	15
17	312	69	307	233	364	482	589	317	141	334	23	15
18	352	121	357	365	366	537	594	26	25	404	19	15
19	339	245	444	156	374	538	593	23	59	182	168	15
20	17	378	221	159	380	534	590	157	274	27	167	17
21	15	350	664	257	369	536	593	131	330	22	156	19
22	228	271	668	379	347	533	607	128	336	278	161	18
23	277	266	684	383	383	532	627	135	22	348	144	142
24	297	42	675	381	369	534	641	131	265	400	17	17
25	224	96	665	382	369	524	642	440	322	361	16	100
26	149	326	667	231	368	526	635	584	344	243	98	106
27	15	347	707	194	366	522	627	629	272	22	20	99
28	15	484	728	413	361	521	614	629	227	21	94	161
29	280	294	729	572	------	517	612	628	22	216	100	124
30	131	258	720	390	------	516	617	605	21	136	85	117
31	58	------	677	397	------	512	------	411	------	231	15	------
TOTAL	6.845	5.544	14.789	12.520	9.563	16.358	16.826	14.612	7.287	6.043	3.431	1.213
MEAN	221	185	477	404	342	528	561	471	243	195	111	40.4
MAX	577	484	728	640	388	606	642	642	439	404	306	161
MIN	15	16	24	156	189	357	43	23	21	20	15	13
MEAN†	197	247	543	237	167	346	913	562	218	199	84.4	100
CFSM†	1.77	2.23	4.89	2.14	1.50	3.12	8.23	5.06	1.96	1.79	.76	.90
IN.†	2.04	2.48	5.64	2.46	1.57	3.60	9.18	5.84	2.19	2.06	.88	1.01

CAL YR 1973 TOTAL 143.467.1 MEAN 344 MAX 1.630 MIN 7.1 MEAN† 401 CFSM† 3.61 IN† 49.11
WTR YR 1974 TOTAL 115.031.0 MEAN 315 MAX 728 MIN 13 MEAN† 318 CFSM† 2.86 IN† 38.95

† Adjusted for change in contents in Waterbury Reservoir.

04290500 WINOOSKI RIVER NEAR ESSEX JUNCTION, VT.

LOCATION.--Lat 44°28'44", long 73°08'21", Chittenden County, on right bank 0.5 mi (0.8 km) downstream from Muddy Brook and 2 mi (3 km) southwest of Essex Junction.

DRAINAGE AREA.--1,044 mi^2 (2,704 km^2).

PERIOD OF RECORD.--October 1928 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 185 ft (56 m) from topographic map; prior to Oct. 1, 1964, datum was 1.00 ft (0.305 m) higher.

AVERAGE DISCHARGE.--46 years, 1,674 ft^3/s (47.41 m^3/s), 21.78 in/yr (553 mm/yr), adjusted for storage since October 1938.

EXTREMES.--Current year: Maximum discharge, 23,000 ft^3/s (651 m^3/s) Dec. 22 (gage height, 14.77 ft or 4.502 m); minimum daily, 155 ft^3/s (4.39 m^3/s) Aug. 25.

Period of record: Maximum discharge, 45,300 ft^3/s (1,280 m^3/s) Mar. 19, 1936 (gage height, 24.54 ft or 7.480 m, present datum), from rating curve extended above 27,000 ft^3/s (765 m^3/s) on basis of computations of flow over dam at gage heights 19.72, 24.54, and 51.4 ft (6.011, 7.480, and 15.67 m) and slope-area measurement at gage height 51.4 ft or 15.67 m (all at present datum); minimum daily, 24 ft^3/s (0.68 m^3/s) Sept. 7, 1968.

Maximum discharge since at least 1830, 113,000 ft^3/s (3,200 m^3/s) Nov. 4, 1927 (gage height, 51.4 ft or 15.67 m, present datum, from floodmarks), from rating curve extended above 27,000 ft^3/s (765 m^3/s) by method explained above.

REMARKS.--Records good except those for winter period, which are fair. Flow regulated by powerplants above station, by Peacham Pond and Mollys Falls Reservoir (combined usable capacity, 492,000,000 ft^3 or 13,900,000 m^3), by Waterbury Reservoir since 1937 (see p. 239), and by East Barre and Wrightsville Detention Reservoirs since 1935 (see p. 234). See table with station 04286000 for monthend contents in Peacham Pond and Mollys Falls Reservoir.

REVISIONS (WATER YEARS).--WSP 714: 1930(M). WSP 894: Drainage area. WSP 1307: 1929(M).

DISCHARGE. IN CUBIC FEET PER SECOND. WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	920	937	2.100	3.930	3.000	1.900	1.400	6.150	2.690	1.410	1.390	329
2	642	1.370	1.920	3.200	1.800	2.100	1.600	5.770	2.400	1.880	1.070	249
3	1.160	1.560	1.480	2.700	1.600	1.800	2.760	4.380	1.930	1.120	631	750
4	1.650	1.580	1.430	2.400	1.450	1.900	8.720	5.360	2.640	1.180	398	848
5	1.870	1.340	1.790	2.200	1.460	5.200	18.100	4.480	2.050	1.060	1.100	748
6	2.540	1.210	3.530	1.900	1.400	12.000	11.000	3.710	1.870	1.100	842	733
7	2.190	1.170	3.330	1.700	1.400	9.000	5.990	3.890	1.820	885	840	184
8	1.900	980	2.430	1.400	1.400	9.000	5.600	3.600	1.640	1.070	691	177
9	1.420	960	2.040	1.200	1.400	4.900	4.450	3.160	1.210	1.200	717	350
10	1.280	799	2.610	1.500	1.250	3.700	3.400	3.100	1.300	1.330	469	362
11	1.030	500	2.950	1.600	1.150	2.800	3.450	3.870	1.340	1.310	217	455
12	1.010	916	2.440	1.500	1.350	2.600	3.040	3.320	1.280	1.160	598	400
13	753	755	1.890	1.450	1.300	1.850	3.900	7.040	1.330	868	521	613
14	652	763	2.240	1.450	1.400	1.900	4.870	5.500	1.050	397	422	289
15	778	1.070	4,190	1.600	1.250	1.900	14.200	4.060	568	775	440	217
16	853	3.150	2.660	1.500	1.200	1.850	9.610	3.200	586	1.410	291	422
17	1.220	3.710	1.450	1.400	1.150	1.800	6.370	2.760	1.160	1.020	473	330
18	943	2.200	1.600	1.350	1.150	2.000	6.700	2.400	2.120	905	933	371
19	980	1.890	1.700	1.300	1.150	1.850	6.390	1.930	1.820	1.490	765	336
20	846	1.710	2.100	1.250	1.100	1.750	5.400	1.780	1.490	2.550	601	385
21	585	1.240	7.500	1.200	1.150	1.500	4.930	1.610	1.420	1.760	658	643
22	623	1.400	20.500	1.500	1.300	1.350	5.820	1.630	1.370	1.070	673	1.160
23	764	1.720	11.000	2.100	7.000	1.750	9.700	2.580	762	879	501	669
24	889	1.610	5.000	1.900	8.000	1.850	8.840	4.640	876	989	242	692
25	893	1.460	4.000	1.900	5.000	2.000	8.030	4.860	1.150	950	155	557
26	640	1.620	5.070	1.800	3.200	1.850	6.100	4.770	1.360	971	357	729
27	580	1.790	11.500	2.200	2.300	1.650	5.080	4.830	1.400	560	346	396
28	485	2.030	12.800	7.300	1.900	1.550	4.670	4.090	1.290	367	489	777
29	748	3.210	7.480	6.040	------	1.350	4.990	3.590	961	740	479	841
30	814	2.570	5.710	3.590	------	1.450	5.810	3.210	561	1.420	523	1.610
31	1.140	------	4.580	3.200	------	1.400	------	2.710	------	1.610	401	------
TOTAL	32.798	47.220	141.020	69.260	58.150	89.500	190.920	117.980	43.444	35.436	18.233	16.622
MEAN	1.058	1.574	4.549	2.234	2.077	2.887	6.364	3.806	1.448	1.143	588	554
MAX	2.540	3.710	20.500	7.300	8.000	12.000	18.100	7.040	2.690	2.550	1.390	1.610
MIN	485	500	1.430	1.200	1.100	1.350	1.400	1.610	561	367	155	177
MEAN †	992	1.654	4.642	2.021	1.851	2.719	6.900	3.830	1.407	1.143	544	642
CFSM †	.95	1.58	4.45	1.94	1.77	2.60	6.61	3.67	1.35	1.09	.52	.61
IN. †	1.10	1.77	5.13	2.23	1.85	3.00	7.38	4.23	1.50	1.26	.60	.69

CAL YR 1973 TOTAL 1.085.086 MEAN 2.973 MAX 26.700 MIN 172 MEAN† 2.982 CFSM† 2.86 IN† 38.78
WTR YR 1974 TOTAL 860.583 MEAN 2.358 MAX 20.500 MIN 155 MEAN† 2.363 CFSM† 2.26 IN† 30.73

PEAK DISCHARGE (BASE, 12,500 ft^3/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-22	0800	14.77	23,000	4-5	1215	13.07	19,600
12-27	2215	11.22	16,000	4-15	1430	11.92	17,300
3-6	-	-	*14,500				

* About.

† Adjusted for change in contents in Peacham Pond, Mollys Falls Reservoir, East Barre and Wrightsville Detention Reservoirs, and Waterbury Reservoir. Records of monthend contents in Peacham Pond and Mollys Falls Reservoir furnished by Green Mountain Power Corp.

04292000 LAMOILLE RIVER AT JOHNSON, VT.

LOCATION.--Lat 44°37'22", long 72°40'50", Lamoille County, on right bank above falls, 0.7 mi (1.1 km) upstream from bridge in Johnson, and 0.8 mi (1.3 km) upstream from Gihon River.

DRAINAGE AREA.--310 mi² (803 km²).

PERIOD OF RECORD.--July to December 1910, June 1911 to December 1913 (monthly discharge only, January to March 1912, Feburary 1913), September 1928 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 495 ft (151 m) from topographic map. Prior to Dec. 31, 1913, nonrecording gage at bridge 0.7 mi (1.1 km) downstream at different datum.

AVERAGE DISCHARGE.--48 years (1911-13, 1928-74), 527 ft³/s (14.92 m³/s), 23.09 in/yr (586 mm/yr).

EXTREMES.--Current year: Maximum discharge, 6,920 ft³/s (196 m³/s) Dec. 22 (gage height, 12.05 ft or 3.673 m); maximum gage height, 12.38 ft (3.773 m) Dec. 21 (ice jam); minimum discharge, 32 ft³/s (0.91 m³/s) Sept. 9; minimum daily, 101 ft³/s (2.86 m³/s) Sept. 9.
Period of record: Maximum discharge, 14,400 ft³/s (408 m³/s) July 1, 1973 (gage height, 17.33 ft or 5.282 m), from rating curve extended above 8,500 ft³/s (241 m³/s) on basis of computation of flow over dam at gage height 16.48 ft (5.023 m); minimum, 11 ft³/s (0.31 m³/s) Sept. 2, 1935; minimum daily, 16 ft³/s (0.45 m³/s) Oct. 26, 1947.

REMARKS.--Records excellent except those for winter period, which are fair. Some regulation by powerplant above station.

REVISIONS (WATER YEARS).--WSP 894: Drainage area. WSP 1114: 1933, 1934(M). WSP 1237: 1912(M), 1930, 1932(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	208	316	628	890	1,030	552	371	2,280	1,070	346	438	171
2	205	830	556	696	650	552	375	1,800	985	464	363	153
3	337	965	499	600	500	456	669	1,320	745	367	300	160
4	1,500	725	503	480	410	481	2,870	1,770	633	464	241	308
5	1,490	486	610	440	370	1,490	4,820	1,410	451	980	245	354
6	2,000	409	1,920	440	360	1,940	3,200	1,080	511	601	295	329
7	1,110	363	1,310	410	360	2,020	1,750	1,050	456	413	287	228
8	691	350	885	410	340	2,580	1,440	1,010	396	507	232	143
9	534	350	745	430	330	1,520	1,050	855	363	507	228	101
10	460	316	1,040	525	320	980	815	885	354	1,110	197	127
11	417	287	935	490	310	705	820	1,290	371	660	156	127
12	388	287	780	470	310	583	765	1,030	392	490	156	123
13	379	295	597	460	320	494	945	2,330	346	371	156	130
14	379	413	673	450	330	547	1,650	1,710	333	346	156	127
15	413	516	1,350	470	330	570	5,280	1,210	287	295	156	127
16	300	1,350	850	450	310	511	3,100	910	216	291	156	127
17	304	1,160	620	400	280	500	1,950	815	337	342	224	130
18	392	696	510	380	270	490	2,450	810	1,490	279	388	146
19	3[illegible]	556	450	360	290	480	2,190	655	900	249	354	185
20	325	486	480	350	280	430	1,860	561	669	438	333	245
21	329		1,700	350	280	400	1,790	499	574	379	205	274
22	30[illegible]		5,000	450	300	390	2,430	481	464	346	160	421
23	279	534	2,200	520	1,500	420	4,710	2,090	421	312	143	388
24	295	543	1,400	560	1,650	460	4,360	3,080	371	205	130	342
25	329	720	1,000	500	1,020	520	2,720	2,920	333	201	127	321
26	316	700	1,350	470	785	450	1,970	2,760	321	249	123	321
27	321	561	3,340	720	646	400	1,580	2,680	358	283	123	321
28	308	780	3,270	1,700	561	350	1,630	1,740	350	197	212	321
29	249	1,170	2,090	1,180	------	300	2,160	1,380	333	197	270	405
30	178	855	1,490	850	------	392	2,600	1,160	329	588	270	1,080
31	208	------	1,090	835	------	375	------	950	------	691	224	------
TOTAL	15,289	17,896	39,871	17,736	14,442	22,338	64,320	44,521	15,159	13,168	7,048	7,735
MEAN	493	597	1,286	572	516	721	2,144	1,436	505	425	227	258
MAX	2,000	1,350	5,000	1,700	1,650	2,580	5,280	3,080	1,490	1,110	438	1,080
MIN	178	287	450	350	270	300	371	481	216	197	123	101
CFSM	1.59	1.93	4.15	1.85	1.66	2.33	6.92	4.63	1.63	1.37	.73	.83
IN.	1.83	2.15	4.78	2.13	1.73	2.68	7.72	5.34	1.82	1.58	.85	.93

CAL YR 1973 TOTAL 330,272 MEAN 905 MAX 10,000 MIN 136 CFSM 2.92 IN 39.63
WTR YR 1974 TOTAL 279,523 MEAN 766 MAX 5,280 MIN 101 CFSM 2.47 IN 33.54

PEAK DISCHARGE (BASE, 5,400 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-22	0330	12.05	6,920				
4-4	2300	11.04	5,840				
4-15	1300	11.30	6,100				

04292100 STONY BROOK NEAR EDEN, VT.

LOCATION.--Lat 44°41'38", long 72°35'00", Lamoille County, on right bank 20 ft (6 m) downstream from bridge on State Highway 100, 500 ft (150 m) upstream from mouth, and 2 mi (3 km) southwest of Eden.

DRAINAGE AREA.--4.21 mi² (10.90 km²).

PERIOD OF RECORD.--June 1963 to September 1974 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 890 ft (271 m) from topographic map.

AVERAGE DISCHARGE.--11 years, 11.0 ft³/s (0.312 m³/s), 35.48 in/yr (901 mm/yr).

EXTREMES.--Current year: Maximum discharge, 700 ft³/s (19.8 m³/s) Aug. 17 (gage height, 3.58 ft or 1.091 m), from rating curve extended above 250 ft³/s (7.08 m³/s); maximum gage height, 4.52 ft (1.378 m) Dec. 27 (backwater from ice); minimum discharge, 1.0 ft³/s (0.028 m³/s) Aug. 10-14, 16, 17.

Period of record: Maximum discharge, 890 ft³/s (25.2 m³/s) June 30, 1973 (gage height, 3.64 ft or 1.109 m), from rating curve extended above 250 ft³/s (7.08 m³/s); maximum gage height, 4.89 ft (1.490 m) Mar. 18, 1972 (backwater from ice); minimum discharge, 0.40 ft³/s (0.011 m³/s) Sept. 24, 1964.

REMARKS.--Records good except those for winter period and those above 100 ft³/s (2.83 m³/s), which are fair. Recording rain gage at station since July 1964 (no winter records).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.2	13	12	24	7.5	8.2	7.0	104	24	3.7	4.7	1.9
2	6.4	23	11	19	6.0	7.7	9.6	39	14	3.1	2.3	1.6
3	71	29	12	15	5.4	7.5	19	31	13	3.1	1.8	6.3
4	29	15	11	12	5.0	9.1	41	65	13	31	3.3	6.5
5	58	11	28	11	5.0	100	101	27	9.0	46	3.1	3.3
6	33	9.9	64	8.6	4.9	80	58	19	7.5	23	2.2	2.3
7	15	9.3	24	7.4	4.9	60	29	18	6.3	9.4	1.7	1.9
8	11	9.1	16	7.0	4.8	40	22	15	5.8	9.4	1.5	1.8
9	9.3	8.8	15	9.0	4.7	25	18	15	5.0	8.7	1.3	2.8
10	8.2	8.2	22	7.6	4.5	15	17	30	4.5	21	1.1	2.8
11	7.7	8.2	15	6.8	4.3	14	16	23	5.5	9.8	1.0	2.6
12	7.2	8.2	12	6.2	4.1	14	15	19	4.5	8.3	1.0	2.3
13	7.5	8.2	12	5.9	3.9	12	16	76	3.7	5.5	1.0	2.6
14	9.6	10	23	5.7	3.7	10	31	38	3.3	4.0	1.1	1.9
15	8.6	16	21	5.9	3.7	9.0	142	23	3.1	3.8	1.1	1.7
16	8.8	30	16	5.5	3.7	8.2	45	20	2.8	3.3	1.1	1.4
17	9.9	16	14	5.3	3.7	8.2	41	16	11	2.4	61	1.4
18	8.6	13	12	5.2	3.5	8.2	54	15	13	2.2	13	1.7
19	7.9	11	11	5.4	3.5	8.0	45	12	6.5	6.8	5.0	1.8
20	7.9	9.6	11	5.4	3.5	7.8	41	8.7	14	5.0	4.7	6.5
21	8.2	9.3	100	5.2	3.5	7.2	52	7.2	6.3	2.9	3.5	9.8
22	7.7	11	68	9.0	7.0	7.6	225	7.2	5.0	2.2	2.9	9.0
23	6.4	13	51	7.0	40	8.0	300	231	4.0	1.9	3.1	4.5
24	6.4	11	37	8.0	21	8.5	142	82	3.3	2.1	3.3	3.1
25	6.1	18	28	7.4	13	10	51	88	3.1	1.9	2.8	2.4
26	7.0	12	58	7.2	9.1	9.0	39	65	3.5	1.7	2.4	4.7
27	6.8	11	110	21	7.9	8.2	34	42	8.7	1.6	2.2	3.5
28	7.5	17	74	17	7.7	7.0	39	27	4.5	1.6	2.1	2.8
29	7.2	19	45	11	-------	8.0	127	20	3.3	1.4	2.1	14
30	7.0	15	37	9.3	-------	7.0	78	17	3.7	9.8	2.8	15
31	7.5	-------	31	9.0	-------	6.8	-------	14	-------	7.5	2.4	------
TOTAL	408.6	402.8	993	289.0	199.5	539.2	1,854.6	1,214.1	214.9	244.1	142.6	123.9
MEAN	13.2	13.4	32.0	9.32	7.13	17.4	61.8	39.2	7.16	7.87	4.60	4.13
MAX	71	30	110	24	40	100	300	231	24	46	61	15
MIN	6.1	8.2	11	5.2	3.5	6.8	7.0	7.2	2.8	1.4	1.0	1.4
CFSM	3.14	3.18	7.60	2.21	1.69	4.13	14.7	9.31	1.70	1.87	1.09	.98
IN.	3.61	3.56	8.77	2.55	1.76	4.76	16.39	10.73	1.90	2.16	1.26	1.09

CAL YR 1973 TOTAL 6,660.9 MEAN 18.2 MAX 320 MIN 2.5 CFSM 4.32 IN 58.86
WTR YR 1974 TOTAL 6,626.3 MEAN 18.2 MAX 300 MIN 1.0 CFSM 4.32 IN 58.55

PEAK DISCHARGE (BASE, 250 ft³/s, revised)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10-3	1830	3.52	550	4-29	2215	3.51	525
12-21	-	-	*500	5-1	0815	3.45	400
12-27	-	-	*300	5-23	1645	3.56	650
3-5	-	-	*350	8-17	1945	3.58	700
4-22	1800	3.52	550				

* About.

04292500 LAMOILLE RIVER AT EAST GEORGIA, VT.

LOCATION.--Lat 44°40'45", long 73°04'23", Franklin County, on right bank at East Georgia, 0.5 mi (0.8 km) upstream from railroad bridge and 1 mi (1.6 km) downstream from Beaver Meadow Brook.

DRAINAGE AREA.--686 mi^2 (1,777 km^2).

PERIOD OF RECORD.--August 1929 to current year. Prior to October 1937, published as "near Milton."

GAGE.--Water-stage recorder. Altitude of gage is 285 ft (86.9 m) from topographic map. Prior to Dec. 1, 1937, at site 3.5 mi (5.6 km) downstream at different datum.

AVERAGE DISCHARGE.--45 years, 1,214 ft^3/s (34.38 m^3/s), 24.03 in/yr (610 mm/yr), adjusted to present drainage area.

EXTREMES.--Current year: Maximum discharge, about 14,000 ft^3/s (396 m^3/s) Dec. 22; maximum gage height, 16.97 ft (5.172 m) Mar. 6 (ice jam); minimum daily discharge, 247 ft^3/s (7.00 m^3/s) Aug. 13.
Period of record: Maximum discharge, 23,200 ft^3/s (657 m^3/s) Mar. 19, 1936 (gage height, 12.52 ft or 3.816 m, site and datum then in use), by computation of peak flow over dam; maximum gage height, 18.81 ft (5.733 m) Apr. 3, 1959 (ice jam); minimum daily discharge, 74 ft^3/s (2.10 m^3/s) Sept. 26, 1964.

REMARKS.--Records good except those for winter period, which are fair. Low flow regulated by powerplants above station. Records of suspended-sediment loads for the current year are published in Part 2 of this report.

REVISIONS.--WSP 894: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	617	691	1.690	2.000	2.100	1.250	785	5.590	2.170	703	1.110	372
2	573	1.420	1.350	1.600	1.600	1.250	820	4.680	2.220	770	739	308
3	914	2.220	1.200	1.400	1.200	1.050	1.830	3.070	1.660	738	599	323
4	3.720	1.920	1.180	1.200	940	1.100	6.630	4.050	1.800	901	567	513
5	3.220	1.280	1.410	1.000	850	3.000	11.300	3.530	1.260	1.990	658	657
6	5.060	1.040	4.740	960	800	4.000	9.390	2.540	1.110	1.890	544	596
7	2.850	925	3.850	910	800	4.600	4.560	2.360	1.470	1.080	582	541
8	1.820	850	2.230	910	780	6.500	3.290	2,200	907	1.150	446	368
9	1.350	821	1.780	1.000	750	4.170	2.470	1.870	832	1.080	417	292
10	1.160	779	2.260	1.150	740	2.440	1.750	1.960	782	1.640	383	263
11	1.010	724	2.170	1.150	720	1.550	1.760	3.220	910	1.700	352	264
12	941	697	1.740	1.050	720	1.300	1.720	2.520	875	1.510	299	262
13	879	705	1.310	1.050	700	1.100	2.690	4.280	765	945	247	265
14	873	747	2.220	1.000	680	1.200	3.750	4.380	722	745	264	273
15	928	1.150	3.230	1.050	660	1.250	8.290	2.960	627	671	307	263
16	900	2.700	2.400	1.000	640	1.150	8.950	2.350	528	670	282	263
17	744	2.920	1.600	900	620	1.150	4.330	1.900	701	610	671	262
18	840	1.800	1.300	840	600	1.100	4.350	1.860	1.890	595	1.900	271
19	801	1.350	1.100	800	620	1.050	4.250	1.560	1.920	617	1.020	291
20	737	1.170	1.100	780	600	980	3.630	1.290	1.550	1.280	1.060	433
21	771	1.010	4.000	780	600	900	3.340	1.150	1.370	929	637	705
22	745	1.190	11.000	950	660	860	4.000	1.080	1.060	687	426	1.270
23	693	1.400	7.000	1.100	3.200	940	7.680	4.480	992	607	342	898
24	652	1.330	3.500	1.200	4.000	1.000	8.820	8.730	834	546	334	679
25	671	1.560	2.200	1.100	2.500	1.200	6.830	6.550	787	438	330	618
26	650	1.700	2.700	1.050	1.800	1.000	4.120	5.010	692	404	394	387
27	648	1.340	7.000	1.500	1.500	900	3.240	5.330	738	428	281	445
28	635	1.720	7.000	4.000	1.300	820	2.980	4.080	834	497	290	435
29	613	2.880	5.000	2.700	-------	760	4.310	3.140	690	385	364	350
30	545	2.310	3.500	2.000	-------	783	6.460	2.550	662	646	351	1.290
31	678	-------	2.600	1.900	-------	814	-------	2.070	-------	1.350	415	-------
TOTAL	37.238	42.349	95.360	40.030	32.680	51.167	138.325	102.340	33.358	28.202	16.611	14.157
MEAN	1.201	1.412	3.076	1.291	1.167	1.651	4.611	3.301	1.112	910	536	472
MAX	5.060	2.920	11.000	4.000	4.000	6.500	11.300	8.730	2.220	1.990	1.900	1.290
MIN	545	691	1.100	780	600	760	785	1.080	528	385	247	262
CFSM	1.75	2.06	4.49	1.88	1.70	2.41	6.72	4.81	1.62	1.33	.78	.69
IN.	2.02	2.30	5.17	2.17	1.77	2.77	7.50	5.55	1.81	1.53	.90	.77

CAL YR 1973 TOTAL 722.077 MEAN 1.978 MAX 14.000 MIN 312 CFSM 2.88 IN 39.16
WTR YR 1974 TOTAL 631.817 MEAN 1.731 MAX 11.300 MIN 247 CFSM 2.52 IN 34.26

PEAK DISCHARGE (BASE, 10,400 ft^3/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-22	*1800	-	*14,000				
4-5	1700	9.56	12,100				
4-16	0200	9.09	10,500				

* About.

04292700 STONE BRIDGE BROOK NEAR GEORGIA PLAINS, VT.

LOCATION.--Lat 44°42'13", long 73°10'54", Franklin County, on left bank 20 ft (6 m) upstream from culvert on gravel road and 1.5 mi (2.4 km) southwest of Georgia Plains.

DRAINAGE AREA.--8.45 mi² (21.89 km²).

PERIOD OF RECORD.--February 1963 to September 1974 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 150 ft (46 m) from topographic map.

AVERAGE DISCHARGE.--11 years, 7.97 ft³/s (0.226 m³/s), 12.81 in/yr (325 mm/yr).

EXTREMES.--Current year: Maximum discharge, 227 ft³/s (6.43 m³/s) Apr. 4 (gage height, 5.33 ft or 1.625 m), from rating curve extended above 75 ft³/s (2.12 m³/s); maximum gage height, 5.58 ft (1.701 m) Apr. 3 (ice jam); minimum discharge, 1.5 ft³/s (0.042 m³/s) July 15, 17, Aug. 16, 17, but may have been less during period of ice effect.

Period of record: Maximum discharge, 264 ft³/s (7.48 m³/s) May 20, 1969 (gage height, 5.54 ft or 1.689 m), from rating curve extended above 75 ft³/s (2.12 m³/s); maximum gage height, 6.01 ft (1.832 m) Jan. 26, 1964 (backwater from ice); minimum discharge, 0.22 ft³/s (0.006 m³/s) Aug. 5, 1965.

REMARKS.--Records good except those for winter period, which are poor. Recording rain gage at station since July 1964 (no winter records).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.5	7.0	12	15	9.4	5.3	5.5	47	9.3	3.4	3.1	1.9
2	3.5	9.0	9.3	10	7.0	4.7	13	25	8.1	3.2	2.4	1.9
3	5.7	18	8.1	8.0	4.5	4.2	68	17	6.5	3.1	2.3	2.9
4	9.9	12	8.4	7.0	3.2	18	181	26	5.3	3.1	3.4	4.2
5	20	8.7	11	6.3	2.6	84	108	18	4.7	2.9	5.3	3.8
6	39	6.7	37	5.7	2.3	41	39	13	4.0	2.7	3.8	3.2
7	17	6.0	23	5.2	2.2	39	21	16	3.2	2.3	3.4	2.7
8	9.6	5.5	13	5.2	2.1	29	19	13	2.9	2.3	2.6	2.4
9	9.3	4.9	16	5.8	2.0	16	12	12	2.6	2.1	3.2	2.3
10	6.7	4.7	29	5.8	2.0	11	12	21	2.6	2.3	2.4	2.2
11	5.7	4.9	22	5.8	1.9	9.6	12	29	3.4	2.2	2.2	2.3
12	5.5	4.9	15	5.4	1.9	6.8	14	20	2.7	2.3	2.0	2.3
13	5.5	4.9	9.3	4.0	1.8	4.9	51	50	2.4	2.0	1.8	2.4
14	5.1	4.9	21	4.4	1.8	4.2	87	26	2.1	1.9	1.8	2.1
15	4.5	8.4	31	4.7	1.8	4.4	65	15	2.0	1.7	1.8	2.0
16	4.9	25	18	4.3	1.7	4.1	34	11	1.9	1.8	1.7	2.0
17	4.7	19	13	3.8	1.7	4.0	21	11	3.7	1.7	7.8	1.9
18	4.9	12	10	3.6	1.7	3.9	18	9.9	8.7	1.7	19	2.2
19	4.5	9.3	8.6	3.5	1.7	3.8	14	8.1	5.3	3.2	9.6	2.4
20	4.7	8.1	8.0	3.5	2.0	3.7	12	7.3	13	5.3	6.7	5.5
21	7.8	7.0	52	3.8	2.1	3.5	11	6.0	8.4	7.5	3.8	9.3
22	6.[illegible]	[illegible]	106	6.0	3.2	3.6	12	6.0	5.3	3.7	2.9	13
23	[illegible]	[illegible]	78	7.0	36	3.9	33	66	4.0	2.8	2.3	6.7
24	4.7	9.9	34	5.7	38	6.0	38	75	2.9	3.1	2.3	4.9
25	4.5	13	16	5.2	19	6.0	30	46	4.7	4.4	2.2	4.0
26	4.2	14	25	5.0	12	5.1	18	20	9.3	2.6	2.0	3.2
27	4.2	9.6	92	10	8.1	4.4	13	16	7.0	2.2	1.9	2.9
28	4.2	26	92	35	6.5	3.9	10	18	5.1	2.0	2.0	2.6
29	4.2	31	58	22	-------	3.6	15	13	3.7	2.9	2.0	2.5
30	4.5	19	49	14	-------	3.4	28	11	3.7	9.3	2.1	2.5
31	5.5	-------	29	10	-------	4.0	-------	8.1	-------	3.8	2.0	-------
TOTAL	230.4	336.4	945.7	240.7	172.2	349.0	1,006.5	680.4	148.5	95.5	111.8	104.2
MEAN	7.43	11.2	30.5	7.76	6.15	11.3	33.6	21.9	4.95	3.08	3.61	3.47
MAX	39	31	106	35	36	84	181	75	13	9.3	19	13
MIN	3.5	4.7	8.0	3.5	1.7	3.4	5.5	6.0	1.9	1.7	1.7	1.9
CFSM	.88	1.33	3.61	.92	.73	1.34	3.98	2.59	.59	.36	.43	.41
IN.	1.01	1.48	4.16	1.06	.76	1.54	4.43	3.00	.65	.42	.49	.46

CAL YR 1973 TOTAL 5,367.4 MEAN 14.7 MAX 108 MIN 2.4 CFSM 1.74 IN 23.63
WTR YR 1974 TOTAL 4,421.3 MEAN 12.1 MAX 181 MIN 1.7 CFSM 1.43 IN 19.46

PEAK DISCHARGE (BASE, 75 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-22	0945	4.57	117	4-4	1600	5.33	227
12-27	-	-	*100	4-13	2345	4.68	130
3-5	1300	4.45	104	5-23	2130	4.92	162

* About.

04293000 MISSISQUOI RIVER NEAR NORTH TROY, VT.

LOCATION.--Lat 44°58'22", long 72°23'15", Orleans County, on right bank 200 ft (60 m) upstream from Big Falls, 1.5 mi (2.4 km) downstream from Jay Branch, and 2.2 mi (3.5 km) upstream from North Troy.

DRAINAGE AREA.--131 mi² (339 km²).

PERIOD OF RECORD.--August 1931 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 580 ft (177 m) from topographic map.

AVERAGE DISCHARGE.--43 years, 268 ft³/s (7.590 m³/s), 27.78 in/yr (706 mm/yr).

EXTREMES.--Current year: Maximum discharge, 4,240 ft³/s (120 m³/s) July 10 (gage height, 9.32 ft or 2.841 m); minimum, 49 ft³/s (1.39 m³/s) Aug. 17; minimum daily, 51 ft³/s (1.44 m³/s) Aug. 16.
Period of record: Maximum discharge, 7,980 ft³/s (226 m³/s) May 3, 1940 (gage height, 12.87 ft or 3.923 m), from rating curve extended above 3,600 ft³/s (102 m³/s) on basis of computation of flow over dam at gage height 11.70 ft (3.566 m); minimum, 9.4 ft³/s (0.27 m³/s) Aug. 28, 1949; minimum daily, 11 ft³/s (0.31 m³/s) Aug. 28, 1949, Aug. 30, 1953.

REMARKS.--Records good except those for winter period, which are fair. Occasional regulation at low flow caused by small powerplant above station; greater regulation prior to 1967.

REVISIONS (WATER YEARS).--WSP 924: 1940. WSP 1114: 1933(M), 1936-39.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	82	193	297	330	486	192	126	1,590	437	206	230	66
2	77	927	213	248	242	193	152	894	337	168	127	60
3	288	741	201	230	162	152	431	563	258	136	101	111
4	954	418	275	220	141	336	2,220	1,240	279	619	101	338
5	880	259	466	195	126	1,300	3,520	665	211	828	127	171
6	1,060	201	1,230	180	108	1,790	1,770	460	174	652	109	106
7	368	173	576	170	103	1,640	674	525	152	281	92	87
8	241	165	331	135	106	1,630	591	430	130	905	82	75
9	188	160	273	125	110	568	334	342	121	666	86	69
10	156	142	539	160	106	375	317	484	114	2,210	76	70
11	138	136	381	175	106	260	331	796	189	494	70	77
12	126	135	262	155	104	216	293	473	154	294	64	68
13	118	151	163	135	106	172	487	1,280	116	204	59	68
14	180	270	443	135	102	179	1,090	791	100	160	56	72
15	202	424	648	135	83	167	2,950	496	90	246	56	65
16	177	648	250	125	83	156	1,470	438	84	261	51	62
17	219	393	135	100	84	169	771	374	160	147	209	60
18	173	267	145	88	82	180	1,120	380	667	118	858	76
19	143	204	145	80	73	157	876	286	259	253	188	84
20	136	194	135	78	90	144	741	237	472	370	107	106
21	148	164	1,150	76	89	131	819	210	352	176	85	284
22	128	245	1,950	200	119	139	1,750	199	235	125	75	551
23	118	407	680	280	650	143	2,830	1,150	163	107	71	222
24	111	323	388	280	536	182	1,700	1,720	127	104	86	138
25	106	535	240	210	368	207	986	1,330	107	109	94	107
26	101	352	1,070	180	274	163	929	981	130	94	70	134
27	98	255	1,910	430	202	147	702	1,040	406	88	70	123
28	94	446	1,790	990	163	134	864	608	237	91	143	96
29	91	604	897	513	------	116	2,010	485	143	83	85	156
30	95	389	568	354	------	132	2,190	405	246	297	81	461
31	128	------	386	375	------	122	------	331	------	300	77	------
TOTAL	7,122	9,921	18,137	7,087	5,084	11,592	35,044	21,203	6,650	10,792	3,786	4,163
MEAN	230	331	585	229	179	374	1,168	684	222	348	122	139
MAX	1,060	927	1,950	990	650	1,790	3,520	1,720	667	2,210	858	551
MIN	77	135	135	76	73	116	126	199	84	83	51	60
CFSM	1.76	2.53	4.47	1.75	1.37	2.86	8.92	5.22	1.69	2.66	.93	1.06
IN.	2.02	2.82	5.15	2.01	1.42	3.29	9.95	6.02	1.89	3.06	1.08	1.18

CAL YR 1973 TOTAL 146,488 MEAN 401 MAX 3,980 MIN 38 CFSM 3.06 IN 41.60
WTR YR 1974 TOTAL 140,501 MEAN 385 MAX 3,520 MIN 51 CFSM 2.94 IN 39.90

PEAK DISCHARGE (BASE, 3,300 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
4-5	0615	9.23	4,160				
7-10	0215	9.32	4,240				

04293500 MISSISQUOI RIVER NEAR RICHFORD, VT.

LOCATION.--Lat 44°57'30", long 72°41'55", Franklin County, on left bank 1.7 mi (2.7 km) upstream from Trout River, 3 mi (4.8 km) south of Richford, and 3.8 mi (6.1 km) downstream from North Branch.

DRAINAGE AREA.--479 mi² (1,241 km²).

PERIOD OF RECORD.--July 1911 to September 1923, October 1928 to current year. Monthly discharge only for some periods, published in WSP 1307.

GAGE.--Water-stage recorder. Altitude of gage is 410 ft (125 m) from topographic map. Prior to Aug. 1, 1915, nonrecording gage at site 0.2 mi (0.3 km) downstream at datum 4.35 ft (1.326 m) lower. Aug. 1, 1915, to Sept. 30, 1923, water-stage recorder at present site and datum. Oct. 1, 1928, to Sept. 30, 1929, nonrecording gage at former site at datum 4.6 ft (1.40 m) lower.

AVERAGE DISCHARGE.--58 years, 916 ft³/s (25.94 m³/s), 25.97 in/yr (660 mm/yr).

EXTREMES.--Current year: Maximum discharge, about 13,000 ft³/s (368 m³/s) Apr. 5; maximum gage height not determined (ice jam about Mar. 7 during period of no gage-height record); minimum discharge, 159 ft³/s (4.50 m³/s) Aug. 17.

Period of record: Maximum discharge, 17,200 ft³/s (487 m³/s) May 4, 1940 (gage height, 15.15 ft or 4.618 m), from rating curve extended above 9,300 ft³/s (263 m³/s) on basis of computation of peak flow over dam at gage height 14.70 ft (4.481 m), slope-area measurement at gage height 12.90 ft (3.932 m), and study of discharge per foot of width at measuring section; maximum gage height, 18.92 ft (5.767 m) Mar. 15, 1946 (ice jam); minimum discharge observed, 8 ft³/s (0.23 m³/s) July 14, 1911.

Maximum discharge since at least 1830, 45,000 ft³/s (1,270 m³/s) during flood of November 1927 (gage height, 23.1 ft or 7.04 m, from floodmarks), from rating curve extended above 9,300 ft³/s (263 m³/s) as explained above.

REMARKS.--Records good except those for winter period and periods of no gage-height record, which are fair. Diurnal fluctuation at low flow prior to 1934. Records of suspended-sediment loads for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 784: Drainage area. WSP 1237: 1913-14(M), 1922(M), 1923, 1929-30. WSP 1307: 1916(M). WSP 1437: 1912.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	332	467	1,460	1,800	1,500	740	500	6,340	1,530	629	836	230
2	297	1,590	1,060	1,350	1,100	680	700	4,530	1,480	572	631	210
3	799	2,300	860	1,150	800	650	1,500	2,880	1,100	456	489	400
4	3,130	1,800	966	1,000	600	1,100	7,400	3,600	1,110	1,520	460	1,200
5	3,310	1,120	1,290	860	520	3,000	12,500	3,030	857	4,260	1,170	600
6	3,960	811	2,660	760	460	5,200	9,300	2,000	658	4,970	851	400
7	2,800	650	2,560	700	430	6,000	5,180	1,760	547	3,100	745	320
8	1,610	573	1,500	670	410	6,000	3,250	1,780	435	3,300	523	290
9	1,100	538	1,110	630	390	3,000	2,030	1,430	376	3,260	444	260
10	816	490	1,660	600	370	1,800	1,310	1,620	345	7,220	358	250
11	650	456	1,610	580	360	1,200	1,470	2,720	614	5,440	290	280
12	560	442	1,180	560	350	900	1,370	2,180	539	2,600	246	260
13	502	463	821	540	340	760	2,190	3,450	413	1,250	217	240
14	532	602	1,730	520	330	680	3,440	3,410	345	845	197	260
15	630	1,060	2,350	510	320	630	6,520	2,240	312	726	184	240
16	598	1,720	1,450	480	310	600	6,670	1,640	278	769	171	230
17	613	1,540	900	440	310	620	4,350	1,380	325	542	513	230
18	561	1,010	750	400	300	640	3,470	1,300	922	403	1,490	325
19	476	806	700	370	300	660	3,140	1,070	965	1,860	917	285
20	440	668	700	350	300	600	2,590	869	808	1,920	412	400
21	469	609	1,600	350	300	560	2,400	731	1,110	1,110	302	800
22	443	679	3,400	720	500	540	3,430	660	764	685	245	1,600
23	402	1,080	3,940	800	1,800	540	6,100	2,140	532	482	214	800
24	376	1,070	2,780	900	2,000	580	7,290	4,280	388	461	225	500
25	354	1,690	2,160	800	1,600	580	5,670	4,090	321	393	256	390
26	335	1,720	3,090	700	1,200	550	3,900	3,360	285	349	240	470
27	318	1,190	5,100	1,200	1,000	530	2,880	3,380	467	316	240	440
28	304	1,380	6,630	2,500	800	510	2,480	2,600	639	315	400	350
29	299	2,310	5,200	3,000	------	490	4,770	1,980	399	329	300	500
30	289	1,930	3,590	2,000	------	470	6,780	1,760	456	482	280	1,500
31	324	------	2,540	1,600	------	460	------	1,440	------	1,240	260	------
TOTAL	27,629	32,764	67,347	28,840	19,000	41,270	124,580	75,650	19,320	51,804	14,106	14,260
MEAN	891	1,092	2,172	930	679	1,331	4,153	2,440	644	1,671	455	475
MAX	3,960	2,310	6,630	3,000	2,000	6,000	12,500	6,340	1,530	7,220	1,490	1,600
MIN	289	442	700	350	300	460	500	660	278	315	171	210
CFSM	1.86	2.28	4.53	1.94	1.42	2.78	8.67	5.09	1.34	3.49	.95	.99
IN.	2.15	2.54	5.23	2.24	1.48	3.21	9.68	5.88	1.50	4.02	1.10	1.11

CAL YR 1973 TOTAL 501,450 MEAN 1,374 MAX 8,880 MIN 110 CFSM 2.87 IN 38.94
WTR YR 1974 TOTAL 516,570 MEAN 1,415 MAX 12,500 MIN 171 CFSM 2.95 IN 40.12

PEAK DISCHARGE (BASE, 7,600 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
4-5	-	-	*13,000				
4-24	1330	10.15	7,730				
4-30	0130	10.47	8,210				
7-5	2200	10.09	7,640				
7-10	0400	11.00	9,000				

* About.

NOTE.--No gage-height record Mar. 5-14, Apr. 5, Aug. 26 to Sept. 30.

04294500 LAKE CHAMPLAIN AT BURLINGTON, VT.

LOCATION.--Lat 44°28'52", long 73°13'27", Chittenden County, 50 ft (15 m) south of Gulf Oil Co. dock at Burlington, 0.1 mi (0.2 km) north of Burlington Water Department pumping station, and 0.5 mi (0.8 km) north of railroad station.

PERIOD OF RECORD.--May 1907 to current year.

GAGE.--Water-stage recorder. Datum of gage is 92.86 ft (28.304 m) above mean sea level. Prior to July 20, 1937, nonrecording gage at site 0.7 mi (1.1 km) south, and July 20, 1937, to Sept. 7, 1939, nonrecording gage at site 0.1 mi (0.2 km) south, both at present datum.

EXTREMES.--Current year: Maximum gage height, 7.08 ft (2.158 m) May 2; minimum, 2.01 ft (0.613 m) Nov. 13, affected by seiche.
Period of record: Maximum gage height observed, 8.65 ft (2.637 m) Mar. 27, 28, 1936; minimum observed, -0.25 ft (-0.076 m) Dec. 4, 1908.

REVISIONS (WATER YEARS).--WSP 684: 1912-29 (datum correction). WSP 1207: 1938 (datum correction).

MEAN GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.82	2.31	2.50	5.53	5.25	4.16	4.26	6.98	6.14	3.97	3.33	2.60
2	2.76	2.27	2.50	5.53	5.28	4.16	4.25	7.06	6.10	3.91	3.32	2.62
3	2.77	2.31	2.40	5.52	5.25	4.10	4.29	7.04	6.00	3.89	3.33	2.63
4	2.79	2.31	2.42	5.50	5.18	4.06	4.49	7.02	5.92	3.89	3.35	2.63
5	2.86	2.32	2.47	5.45	5.12	4.20	4.97	6.99	5.82	3.89	3.30	2.61
6	2.94	2.31	2.55	5.40	5.04	4.46	5.42	6.95	5.76	3.90	3.30	2.58
7	3.01	2.28	2.66	5.35	4.99	4.71	5.63	6.93	5.62	3.91	3.32	2.56
8	3.03	2.20	2.71	5.29	4.92	4.97	5.74	6.89	5.51	3.91	3.25	2.54
9	3.02	2.20	2.76	5.23	4.84	5.09	5.85	6.82	5.42	3.90	3.20	2.49
10	3.01	2.19	2.83	5.16	4.76	5.14	5.85	6.77	5.32	3.92	3.17	2.49
11	2.98	2.15	2.90	5.12	4.69	5.13	5.81	6.78	5.23	3.92	3.18	2.46
12	2.95	2.09	2.94	5.07	4.63	5.10	5.80	6.71	5.13	3.94	3.20	2.42
13	2.90	2.05	2.92	5.00	4.55	5.04	5.79	6.83	5.02	3.91	3.14	2.43
14	2.85	2.05	2.96	4.89	4.50	4.98	5.91	6.91	4.93	3.85	3.06	2.44
15	2.80	2.10	3.05	4.89	4.43	4.91	6.12	6.89	4.83	3.80	3.05	2.39
16	2.77	2.19	3.10	4.90	4.35	4.87	6.41	6.88	4.73	3.77	3.00	2.36
17	2.73	2.19	3.15	4.88	4.28	4.88	6.53	6.83	4.70	3.73	2.97	2.32
18	2.70	2.24	3.18	4.84	4.21	4.86	6.57	6.77	4.67	3.67	3.03	2.32
19	2.67	2.25	3.16	4.82	4.13	4.82	6.61	6.69	4.61	3.63	3.05	2.28
20	2.65	2.25	3.14	4.79	4.09	4.78	6.59	6.59	4.60	3.62	3.05	2.27
21	2.60	2.20	3.33	4.73	4.03	4.76	6.56	6.48	4.55	3.64	3.04	2.33
22	2.60	2.20	3.69	4.75	4.00	4.72	6.54	6.37	4.51	3.60	3.00	2.40
23	2.55	2.22	3.99	4.72	4.10	4.62	6.61	6.36	4.44	3.54	2.95	2.43
24	2.53	2.24	4.17	4.73	4.22	4.63	6.80	6.40	4.38	3.52	2.93	2.41
25	2.50	2.25	4.19	4.73	4.27	4.60	6.86	6.45	4.35	3.50	2.90	2.33
26	2.45	2.30	4.27	4.70	4.26	4.54	6.89	6.47	4.32	3.45	2.84	2.35
27	2.40	2.27	4.50	4.68	4.22	4.51	6.87	6.46	4.25	3.40	2.73	2.34
28	2.39	2.31	4.84	4.84	4.18	4.47	6.79	6.45	4.18	3.34	2.72	2.32
29	2.38	2.38	5.13	5.03	------	4.40	6.79	6.41	4.11	3.30	2.74	2.32
30	2.37	2.47	5.35	5.13	------	4.33	6.87	6.35	4.03	3.32	2.69	2.34
31	2.33	------	5.47	5.18	------	4.32	------	6.23	------	3.35	2.63	------
MEAN	2.71	2.24	3.39	5.04	4.56	4.66	6.02	6.70	4.97	3.71	3.06	2.43
MAX	3.03	2.47	5.47	5.53	5.28	5.14	6.89	7.06	6.14	3.97	3.35	2.63
MIN	2.33	2.05	2.40	4.68	4.00	4.06	4.25	6.23	4.03	3.30	2.63	2.27

CAL YR 1973 MEAN 4.58 MAX 7.57 MIN 2.05
WTR YR 1974 MEAN 4.12 MAX 7.06 MIN 2.05

04295500 LAKE MEMPHREMAGOG AT NEWPORT, VT.

LOCATION.--Lat 44°56'15", long 72°12'21", Orleans County, on west side of bridge on U.S. Highway 5 at Newport.

PERIOD OF RECORD.--May 1931 to current year.

GAGE.--Water-stage recorder. Datum of gage is 673.00 ft (205.130 m) above mean sea level. Prior to July 21, 1934, nonrecording gage on highway bridge 0.1 mi (0.2 km) southeast at same datum. July 21, 1934, to Aug. 22, 1961, nonrecording gage on east side, and Aug. 23, 1961, to Oct. 18, 1966, on west side of bridge at present site and datum.

EXTREMES.--Current year: Maximum gage height, 11.09 ft (3.380 m) May 1 (affected by seiche); minimum, 7.61 ft (2.320 m) Apr. 2 (affected by seiche).

Period of record: Maximum gage height observed, 12.92 ft (3.938 m) Apr. 20, 1933; minimum recorded, 6.48 ft (1.975 m) Nov. 2, 1968 (affected by seiche), but may have been lower during period of use of nonrecording gage.

REMARKS.--Elevation of lake regulated by powerplant and gates at Magog, Quebec.

MEAN GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.65	8.95	9.43	10.30	9.70	8.85	7.66	10.89	10.19	9.78	9.66	8.61
2	9.60	8.93	9.42	10.13	9.74	8.81	7.66	10.89	10.16	9.72	9.61	8.60
3	9.63	9.00	9.37	9.97	9.75	8.74	7.68	10.80	10.14	9.71	9.56	8.63
4	9.77	9.05	9.37	9.87	9.73	8.69	8.01	10.76	10.08	9.82	9.53	8.60
5	9.84	9.03	9.38	9.77	9.69	8.76	8.77	10.69	10.08	10.05	9.52	8.52
6	9.87	9.02	9.49	9.68	9.65	8.93	9.19	10.54	10.00	10.13	9.49	8.47
7	9.83	8.99	9.59	9.62	9.62	9.12	9.34	10.41	9.94	9.98	9.41	8.42
8	9.77	8.94	9.61	9.58	9.57	9.35	9.43	10.30	9.94	9.86	9.39	8.40
9	9.70	8.97	9.66	9.58	9.51	9.43	9.47	10.15	9.95	9.78	9.36	8.38
10	9.69	8.94	9.72	9.54	9.46	9.41	9.43	10.14	9.92	10.02	9.31	8.37
11	9.66	8.90	9.77	9.52	9.40	9.33	9.33	10.15	9.92	9.96	9.30	8.29
12	9.63	8.85	9.78	9.49	9.34	9.21	9.25	10.06	9.89	9.82	9.28	8.24
13	9.59	8.85	9.73	9.47	9.27	9.07	9.18	10.16	9.84	9.62	9.20	8.24
14	9.56	8.84	9.79	9.45	9.22	8.93	9.25	10.18	9.78	9.47	9.15	8.23
15	9.46	8.87	9.84	9.42	9.15	8.80	9.58	10.13	9.73	9.53	9.06	8.16
16	9.41	8.97	9.77	9.40	9.09	8.68	9.90	10.10	9.72	9.60	8.97	8.17
17	9.37	8.99	9.74	9.36	9.03	8.63	9.98	10.08	9.76	9.63	8.94	8.07
18	9.34	9.03	9.67	9.32	8.97	8.54	10.07	10.08	9.88	9.66	9.11	8.10
19	9.29	9.03	9.58	9.29	8.91	8.45	10.12	10.13	9.94	9.81	9.15	7.99
20	9.27	9.02	9.58	9.29	8.89	8.37	10.10	10.13	10.01	9.93	9.13	7.98
21	9.27	8.99	9.72	9.27	8.84	8.31	10.07	10.11	9.99	9.95	9.08	8.05
22	9.22	9.00	9.97	9.27	8.82	8.23	10.03	10.04	10.01	9.98	9.03	8.13
23	9.20	9.03	10.13	9.26	8.87	8.13	10.19	10.08	9.99	10.01	8.98	8.16
24	9.18	9.06	10.21	9.25	8.91	8.06	10.46	10.25	9.98	10.05	8.95	8.10
25	9.11	9.16	10.23	9.23	8.94	7.98	10.59	10.34	9.95	10.01	8.97	8.01
26	9.08	9.21	10.30	9.21	8.94	7.93	10.65	10.42	9.91	9.92	8.90	8.00
27	9.09	9.17	10.44	9.25	8.94	7.87	10.65	10.50	9.88	9.83	8.82	7.98
28	9.02	9.22	10.58	9.41	8.91	7.81	10.60	10.50	9.84	9.74	8.85	7.92
29	8.97	9.33	10.61	9.56	------	7.76	10.62	10.43	9.77	9.63	8.79	7.96
30	8.96	9.39	10.54	9.59	------	7.73	10.79	10.36	9.80	9.64	8.71	8.04
31	8.96	------	10.43	9.62	------	7.70	------	10.19	------	9.67	8.62	------
MEAN	9.42	9.02	9.85	9.52	9.25	8.57	9.60	10.32	9.93	9.82	9.16	8.23
MAX	9.87	9.39	10.61	10.30	9.75	9.43	10.79	10.89	10.19	10.13	9.66	8.63
MIN	8.96	8.84	9.37	9.21	8.82	7.70	7.66	10.04	9.72	9.47	8.62	7.92

CAL YR 1973 MEAN 9.51 MAX 11.25 MIN 7.87
WTR YR 1974 MEAN 9.39 MAX 10.89 MIN 7.66

04296000 BLACK RIVER AT COVENTRY, VT.

LOCATION.--Lat 44°52'08", long 72°16'14", Orleans County, on right bank 15 ft (5 m) downstream from highway bridge, 800 ft (250 m) upstream from Stony Brook, and 0.4 mi (0.6 km) northwest of Coventry.

DRAINAGE AREA.--122 mi^2 (316 km^2).

PERIOD OF RECORD.--October 1951 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 725 ft (221 m) from topographic map.

AVERAGE DISCHARGE.--23 years, 199 ft^3/s (5.636 m^3/s), 22.15 in/yr (563 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,840 ft^3/s (52.1 m^3/s) Apr. 4 (gage height, 6.29 ft or 1.971 m); minimum daily, 46 ft^3/s (1.30 m^3/s) Sept. 17.

Period of record: Maximum discharge, 3,650 ft^3/s (103 m^3/s) June 30, 1973 (gage height, 7.85 ft or 2.393 m); minimum daily, 11 ft^3/s (0.31 m^3/s) Aug. 29 to Sept. 1, 1953.

REMARKS.--Records excellent except those for winter period, which are fair. Occasional diurnal fluctuation at low flow by mill above station; greater regulation prior to 1960.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	110	143	276	270	390	176	133	938	423	135	163	56
2	101	366	206	240	280	166	136	812	396	165	110	50
3	212	436	172	230	180	154	331	655	328	133	89	67
4	599	352	188	215	150	163	1,140	724	259	259	84	136
5	587	223	223	200	130	820	1,420	572	226	591	97	122
6	640	165	635	190	115	976	1,510	476	186	504	97	82
7	519	141	522	180	110	1,150	931	482	165	375	85	67
8	417	135	430	175	105	1,340	800	416	147	439	75	58
9	276	135	312	170	100	1,070	531	359	133	364	69	53
10	190	125	347	165	95	738	395	374	128	784	65	51
11	170	117	339	160	93	450	357	508	178	493	60	57
12	159	113	266	155	93	320	347	426	178	344	57	52
13	147	116	190	145	92	250	429	747	141	210	55	51
14	159	124	312	145	88	210	748	626	117	159	54	55
15	176	168	443	140	85	195	1,470	540	107	202	51	51
16	161	439	310	130	81	176	1,460	452	100	202	49	47
17	184	411	195	120	79	200	1,020	345	117	152	111	46
18	168	307	150	110	77	210	1,020	312	459	119	352	58
19	141	195	140	105	77	185	887	268	355	148	194	64
20	130	172	140	100	78	170	792	221	333	232	101	63
21	132	154	700	115	76	160	747	194	261	176	96	103
22	125	174	950	141	84	160	793	182	223	124	72	209
23	116	249	600	166	360	165	1,110	645	163	104	63	147
24	110	239	410	184	350	180	1,240	877	136	119	62	90
25	105	312	350	182	300	175	1,080	992	114	111	58	74
26	102	320	480	166	250	165	913	1,100	114	98	53	68
27	101	232	950	273	210	155	734	996	247	87	52	68
28	97	271	900	579	190	145	659	890	221	83	55	63
29	92	407	500	420	------	140	801	777	138	88	56	89
30	93	366	370	358	------	130	923	614	119	172	57	234
31	114	------	300	347	------	133	------	478	------	247	59	------
TOTAL	6,433	7,107	12,306	6,276	4,318	10,827	24,857	17,998	6,212	7,419	2,701	2,431
MEAN	208	237	397	202	154	349	829	581	207	239	87.1	81.0
MAX	640	439	950	579	390	1,340	1,510	1,100	459	784	352	234
MIN	92	113	140	100	76	130	133	182	100	83	49	46
CFSM	1.70	1.94	3.25	1.66	1.26	2.86	6.80	4.76	1.70	1.96	.71	.66
IN.	1.96	2.17	3.75	1.91	1.32	3.30	7.58	5.49	1.89	2.26	.82	.74

CAL YR 1973 TOTAL 120,851 MEAN 331 MAX 2,640 MIN 48 CFSM 2.71 IN 36.85
WTR YR 1974 TOTAL 108,885 MEAN 298 MAX 1,510 MIN 46 CFSM 2.44 IN 33.20

PEAK DISCHARGE (BASE, 1,700 ft^3/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
4-4	1930	6.29	1,840				

04296200 BROWNINGTON BRANCH NEAR EVANSVILLE, VT.

LOCATION.--Lat 44°50'02", long 72°04'00", Orleans County, on right bank 10 ft (3 m) upstream from culvert on State Highway 5A, 0.5 mi (0.8 km) upstream from Moody Brook, and 4 mi (6 km) northeast of Evansville.

DRAINAGE AREA.--2.15 mi^2 (5.57 km^2).

PERIOD OF RECORD.--June 1963 to December 1973 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 1,170 ft (357 m) from topographic map.

AVERAGE DISCHARGE.--10 years, 3.38 ft^3/s (0.096 m^3/s), 21.35 in/yr (542 mm/yr).

EXTREMES.--Period October to December 1973: Maximum discharge, 170 ft^3/s (4.81 m^3/s) Dec. 21 (gage height, 7.91 ft or 2.411 m), from rating curve extended as explained below; minimum, 0.80 ft^3/s (0.023 m^3/s) Oct. 29, 30.

Period of record: Maximum discharge, 170 ft^3/s (4.81 m^3/s) Dec. 21, 1973 (gage height, 7.91 ft or 2.411 m), from rating curve extended above 89 ft^3/s (2.52 m^3/s) on basis of computation of flow through culvert at gage height 6.71 ft (2.045 m); no flow at times in water years 1966, 1968-71, 1973.

REMARKS.--Records good. Recording rain gage at station since April 1964 (no winter records).

REVISIONS (WATER YEARS).--WRD Mass., N.H., R.I., Vt., 1968: 1967(M).

DISCHARGE, IN CUBIC FEET PER SECOND, OCTOBER TO DECEMBER 1973

DAY	OCT	NOV	DEC
1	1.8	3.5	3.4
2	1.6	6.6	2.5
3	19	8.4	2.5
4	15	4.3	3.2
5	18	2.9	5.5
6	12	2.3	25
7	5.3	1.9	8.2
8	3.5	1.9	5.0
9	2.9	1.7	5.2
10	2.6	1.3	9.5
11	1.8	1.2	6.1
12	1.5	1.2	3.9
13	1.4	1.3	3.4
14	2.1	1.8	16
15	1.7	5.0	12
16	2.0	14	6.1
17	1.9	6.2	4.7
18	1.7	4.3	4.1
19	1.6	3.2	2.5
20	1.7	2.6	2.2
21	1.6	2.3	86
22	1.6	4.3	30
23	1.5	5.6	10
24	1.2	4.1	5.2
25	1.1	7.6	4.7
26	1.0	4.4	18
27	1.0	3.9	55
28	.88	6.4	28
29	.80	6.8	8.5
30	.96	4.6	6.0
31	1.4	------	5.0
TOTAL	112.14	125.6	387.4
MEAN	3.62	4.19	12.5
MAX	19	14	86
MIN	.80	1.2	2.2
CFSM	1.68	1.95	5.81
IN.	1.94	2.17	6.70

CAL YR 1973 TOTAL 2,023.37 MEAN 5.54 MAX 97 MIN 0 CFSM 2.58 IN 35.01

PEAK DISCHARGE (BASE, 80 ft^3/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-21	1445	7.91	170				
12-27	0700	5.92	96				

04296500 CLYDE RIVER AT NEWPORT, VT.

LOCATION.--Lat 44°56'22", long 72°11'23", Orleans County, on right bank in Newport, just downstream from small right-bank tributary and 1 mi (1.6 km) upstream from mouth.

DRAINAGE AREA.--142 mi² (368 km²).

PERIOD OF RECORD.--May 1909 to September 1919, May 1920 to August 1922, October 1922 to September 1924, November 1928 to May 1936, September 1938 to current year. Prior to November 1928, published as "at West Derby."

GAGE.--Water-stage recorder and, since Mar. 6, 1957, records of power generation. Datum of gage is 682.36 ft (207.983 m) above mean sea level. May 25, 1909, to Sept. 20, 1915, nonrecording gage, and Sept. 21, 1915, to Sept. 30, 1924, Nov. 16, 1928, to May 4, 1936, water-stage recorder, at site 0.65 mi (1.05 km) upstream at different datum.

AVERAGE DISCHARGE.--55 years (1909-19, 1920-21, 1922-24, 1929-35, 1938-74), 255 ft³/s (7.222 m³/s), 24.39 in/yr (620 mm/yr).

EXTREMES.--Current year: Maximum daily discharge, 1,830 ft³/s (51.8 m³/s) Apr. 25; minimum daily, 21 ft³/s (0.59 m³/s) Sept. 15.
Period of record: Maximum discharge, 3,900 ft³/s (110 m³/s) Mar. 20, 1936 (gage height, 5.76 ft or 1.756 m, site and datum then in use), from rating curve extended above 2,800 ft³/s (79.3 m³/s) on basis of computation of peak flow over dam; maximum daily, 2,680 ft³/s (75.9 m³/s) May 4, 1940; minimum daily, 2.6 ft³/s (0.074 m³/s) June 18, 1956.

REMARKS.--Records fair. Flow regulated by powerplant and reservoirs above station and, since Mar. 6, 1957, by diversion around station through canal and penstock of powerplant below station. Diversion computed from relation of kilowatt-hour output and measured discharge; discharge computed by adding flow over control to flow diverted through powerplant.

COOPERATION.--Records of power generation furnished by Citizens Utilities Co.

REVISIONS (WATER YEARS).--WSP 744: 1913(M), drainage area. WSP 924: 1940. WSP 1307: 1913-15(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	294	250	300	742	368	344	249	1,590	734	285	226	30
2	277	238	294	641	364	273	262	1,560	679	270	236	32
3	257	248	299	573	275	284	342	1,400	624	257	187	162
4	293	260	292	500	260	301	442	1,260	578	253	156	168
5	277	269	301	440	295	423	630	1,100	519	403	207	122
6	265	291	293	410	215	484	1,090	979	463	415	250	132
7	269	280	335	400	215	485	1,140	909	435	411	158	35
8	359	301	348	340	170	673	1,060	817	403	407	212	23
9	374	297	367	335	155	728	885	738	327	407	150	170
10	368	300	386	325	95	686	709	707	306	487	71	206
11	326	286	377	310	165	611	615	703	298	515	80	132
12	323	283	363	320	150	530	563	686	304	507	108	153
13	311	199	336	355	180	490	558	782	253	471	150	150
14	286	206	350	270	190	444	605	825	221	399	145	33
15	289	212	384	170	185	432	837	821	206	395	135	21
16	292	274	351	200	75	303	1,110	773	237	291	54	113
17	283	290	369	210	80	226	1,240	712	218	301	86	90
18	385	287	332	220	190	271	1,180	649	285	265	188	82
19	282	282	332	205	165	388	1,070	593	339	270	182	75
20	280	280	298	190	175	302	982	544	407	265	215	65
21	245	285	498	210	120	295	905	503	411	156	173	29
22	244	287	659	195	245	292	889	471	311	289	165	23
23	243	291	768	225	286	272	1,120	507	323	254	168	143
24	245	289	875	230	134	131	1,550	623	285	177	122	148
25	242	300	850	241	285	220	1,830	717	267	169	82	148
26	188	304	799	254	270	325	1,710	870	288	330	143	191
27	240	308	942	251	314	280	1,440	944	267	160	82	145
28	255	319	1,020	357	335	280	1,220	951	288	81	200	68
29	250	305	1,030	408	------	245	1,190	912	277	219	143	80
30	248	301	996	314	------	193	1,400	867	203	228	132	162
31	247	------	889	377	------	204	------	787	------	225	36	------
TOTAL	8,737	8,322	16,033	10,218	5,956	11,415	28,823	26,300	10,756	9,562	4,642	3,131
MEAN	282	277	517	330	213	368	961	848	359	308	150	104
MAX	385	319	1,030	742	368	728	1,830	1,590	734	515	250	206
MIN	188	199	292	170	75	131	249	471	203	81	36	21
CFSM	1.99	1.95	3.64	2.32	1.50	2.59	6.77	5.97	2.53	2.17	1.06	.73
IN.	2.29	2.18	4.20	2.68	1.56	2.99	7.55	6.89	2.82	2.50	1.22	.82

CAL YR 1973 TOTAL 138,837 MEAN 380 MAX 1,520 MIN 36 CFSM 2.68 IN 36.37
WTR YR 1974 TOTAL 143,895 MEAN 394 MAX 1,830 MIN 21 CFSM 2.77 IN 37.70

NOTE.--Discharge in cubic feet per second per square mile and runoff in inches may not represent natural flow because of regulation.

As the number of streams on which streamflow information is likely to be desired far exceeds the number of stream-gaging stations feasible to operate at one time, the Geological Survey collects limited streamflow data at sites other than stream-gaging stations. When limited streamflow data are collected on a systematic basis over a period of years for use in hydrologic analyses, the site at which the data are collected is called a partial-record station. Data collected at these partial-record stations are usable in low-flow or floodflow analyses, depending on the type of data collected. In addition, discharge measurements are made at other sites not included in the partial-record program. These measurements are generally made in times of drought or flood to give better areal coverage to those events. Those measurements and others collected for some special reason are called measurements at miscellaneous sites.

Records collected at partial-record stations are presented in two tables. The first is a table of discharge measurements at low-flow partial-record stations, and the second, a table of annual maximum stage and discharge at crest-stage stations. Discharge measurements made at miscellaneous sites for both low flow and high flow are given in a third table.

Low-flow partial-record stations

Measurements of streamflow in the area covered by this report made at low-flow partial-record stations are given in the following table. Most of these measurements were made during periods of base flow when streamflow is primarily from ground-water storage. These measurements, when correlated with the simultaneous discharge of a nearby stream where continuous records are available, will give a picture of the low-flow potentiality of a stream. The column headed "Period of record" shows the water years in which measurements were made at the same, or practically the same, site.

Discharge measurements made at low-flow partial-record stations during water year 1974

Station No.	Station name	Location	Drainage area (mi^3)	Period of record	Measurements	
					Date	Discharge (ft^3/s)
		Merrimack River basin				
01094430	Falulah Brook at Fitchburg, Mass.	Lat 42°35'22", long 71°46'54", Worcester County, at bridge on Pearl St., 0.4 mi east of State Teachers College, Fitchburg.	a12.0	1972-74	10- 2-73 10-17-73	1.2 .53
01094460	Monoosnoc Brook at Leominster, Mass.	Lat 42°31'47", long 71°45'08", Worcester County, at bridge on Whitney St., Leominster, 2,500 ft northeast of intersection of Mechanic St. and Main St.	11.0	1971-74	10- 2-73 1- 8-74b	1.7 c10
01094480	Fall Brook at Leominster, Mass.	Lat 42°30'32", long 71°44'43", Worcester County, at culvert on Elm Hill Ave., Leominster, 2,200 ft above State Highway 117.	5.82	1971-74	10- 2-73 1- 8-74b	2.9 c11
01094760	Waushacum Brook near West Boylston, Mass.	Lat 42°23'49", long 71°46'48", Worcester County, at culvert on Prescott St., 1.5 mi north of intersection of State Highways 12, 110, and 140, in West Boylston.	7.42	1971-74	1- 8-74b	c14
01095220	Stillwater River near Sterling, Mass.	Lat 42°24'39", long 71°47'30", Worcester County, at bridge on Muddy Pond Rd., 2.5 mi southwest of Sterling.	30.3	1971-74	1- 8-74b	c55
01095370	Asnebumskit Brook near Holden, Mass.	Lat 42°22'24", long 71°51'14", Worcester County, at culvert on Mills St., 1.5 mi north of Holden Center.	-	1971-74	10- 2-73	2.9
01095915	Mulpus Brook near Shirley, Mass.	Lat 42°34'26", long 71°34'43", Middlesex County, at culvert on State Highway 2A, 2.5 mi northeast of Shirley.	15.7	1971-74	1- 9-74b	c30
01095980	Squannacook River at Townsend, Mass.	Lat 42°39'45", long 71°42'33", Middlesex County, at bridge on Elm St., Townsend, 1,800 ft southwest of intersection of Main St. and Elm St.	a51.1	1971-74	10- 2-73	9.2
01096503	Nissitissit River at Pepperell, Mass.	Lat 42°40'19", long 71°34'39", Middlesex County, at bridge on Canal St., Pepperell, 4,000 ft above mouth.	59.6	1971-74	1-10-74b	c90
01096505	Unkety Brook near Pepperell, Mass.	Lat 42°41'23", long 71°32'54", Middlesex County, at culvert on River St., 2.5 mi northeast of Pepperell.	6.84	1971-74	1-10-74b	c6
*01100100	Richardson Brook near Lowell, Mass.	Lat 42°39'48", long 71°16'02", Middlesex County, at culvert on Methuen St., 3 mi northeast of Lowell.	4.32	1965d, 1973-74	10-26-73 7-25-74 8-23-74	.27 e.10 0
01100200	Trull Brook near Lowell, Mass.	Lat 42°38'58", long 71°15'38", Middlesex County, at culvert on River Rd., 2.9 mi east of Lowell.	4.42	1973-74	10-26-73 7-25-74 8-23-74	.77 .16 0
01100300	Fish Brook near Andover, Mass.	Lat 42°40'47", long 71°13'08", Essex County, at culvert on River Rd., 4.3 mi northwest of Andover.	3.59f	1973-74	10-26-73 7-25-74 8-23-74	.19 e.10 0

* Also a crest-stage partial-record station.
a Adjusted for diversion to North Nashua River basin.
b Record of chemical analyses for this date in Part 2 of this report.
c Not base flow.
d Published in table of "Measurements at Miscellaneous Sites" as Trout Brook.
e Field estimate.
f Excludes Haggetts Pond.

Discharge measurements made at low-flow partial-record stations during water year 1974--Continued

Merrimack River basin--Continued

Station No.	Station name	Location	Drainage area (mi^3)	Period of record	Measurements	
					Date	Discharge (ft^3/s)
01100400	Bartlett Brook near Methuen, Mass.	Lat 42°42'15", long 71°13'27", Essex County, at culvert on North Lowell St., 2.4 mi southwest of Methuen.	6.85	1973-74	10-26-73 7-25-74 8-23-74	0.28 .11 0
01100565	Spicket River at Lawrence, Mass.	Lat 42°42'33", long 71°09'07", Essex County, 100 ft above bridge on General St., at Lawrence.	77.5	1973-74	10-26-73 7-10-74 7-11-74 7-24-74 8- 8-74 8-20-74 8-22-74b	5.9 c25. c20 16 8.2 9.1 10.
01100570	Shawsheen River near Bedford, Mass.	Lat 42°28'25", long 71°15'52", Middlesex County, at bridge on Summer St., 1.3 mi southeast of Bedford.	6.65	1973-74	10- 2-73 3-14-74 6-25-74 7-26-74 8- 8-74 8-29-74	2.4 7.2 c5.2 2.4 1.8 c3.0
01100574	Elm Brook at Bedford, Mass.	Lat 42°29'13", long 71°15'52", Middlesex County, at culvert on Great Rd., 0.7 mi east of Bedford.	4.69	1973-74	10- 2-73 3-14-74 7-26-74 8- 8-74 8-29-74	1.2 5.4 1.0 .67 c1.5
01100580	Spring Brook near Bedford, Mass.	Lat 42°29'39", long 71°15'23", Middlesex County, 200 ft above mouth and 500 ft below culvert on State Highway 62, 1.1 mi east of Bedford.	2.26	1973-74	10- 2-73 7-26-74	.53 e.15
01100590	Vine Brook at Route 62, near Bedford, Mass.	Lat 42°30'04", long 71°14'49", Middlesex County, at culvert on State Highway 62, 1.7 mi northeast of Bedford.	9.95	1973-74	10- 2-73 6-25-74 7-26-74 8- 8-74 8-29-74	1.9 c3.9 1.1 .39 c.24
01100603	Content Brook near Billerica, Mass.	Lat 42°34'45", long 71°13'31", Middlesex County, at culvert on Whipple Rd., 2.6 mi northeast of Billerica.	5.24	1973-74	7-26-74 8- 8-74	2.4 1.6
01100606	Heath Brook near Tewksbury, Mass.	Lat 42°35'28", long 71°12'15", Middlesex County, at culvert on Shawsheen St., 2.2 mi southeast of Tewksbury.	2.14	1973-74	7-26-74 8- 8-74	.37 e.15
01100608	Me[illegible]w Brook near Tewks[illegible]ry, Mass.	Lat 42°37'14", long 71°12'44", Middlesex County, at culvert on Pinnacle St., 1.2 mi northeast of Tewksbury.	4.08	1973-74	7-25-74 8- 8-74	.30 e.20
01100610	Stron[illegible] near [illegible], Mass.	Lat 42°35'46", long 71°11'47", Middlesex County, at culvert on Shawsheen St., 2.1 mi southeast of Tewksbury.	9.25	1973-74	7-25-74 8- 8-74	1.6 1.2
01100660	Bare Meadow Brook near Methuen, Mass.	Lat 42°45'32", long 71°08'05", Essex County, at culvert on Brookdale Ave., 3.8 mi northeast of Methuen.	7.68	1973-74	10-26-73 7-24-74 8- 2-74 8-22-74 8-23-74b	.68 .32 .24 e.20 e.20
*01100800	Cobbler Brook near Merrimac, Mass.	Lat 42°50'55", long 71°01'10", Essex County, at culvert on Highland St., 1.3 mi northwest of Merrimac.	.77	1965g, 1974	7-22-74	0

Mystic River basin

Station No.	Station name	Location	Drainage area (mi^3)	Period of record	Measurements	
					Date	Discharge (ft^3/s)
01102450	Halls Brook near Woburn, Mass.	Lat 42°30'50", long 71°08'46", Middlesex County, at culvert on New Boston St., 2.4 mi north of Woburn.	1.52	1973-74	8- 9-73h 10-17-73 7-29-74	1.8 .68 e.15
01102465	Aberjona River at Montvale Ave., near Woburn, Mass.	Lat 42°28'46", long 71°07'07", Middlesex County, at bridge on Montvale Ave., 1.8 mi east of Woburn.	8.97	1973-74	10-16-73 3-26-74 7-30-74 8- 9-74 9-13-74	2.8 c24. 3.6 1.5 1.9
01102470	Sweetwater Brook at Stoneham, Mass.	Lat 42°28'45", long 71°06'44", Middlesex County, at culvert on Maple St., 0.6 mi west of Stoneham.	2.10	1973-74	10-16-73 7-29-74	.13 e <.10

* Also a crest-stage partial-record station.
b Record of chemical analysis for this date in Part 2 of this report.
c Not base flow.
e Field estimate.
g Published in table of "Measurements at Miscellaneous Sites."
h Inadvertently omitted from 1973 report.

Discharge measurements made at low-flow partial-record stations during water year 1974--Continued

Station No.	Station name	Location	Drainage area (mi^2)	Period of record	Measurements	
					Date	Discharge (ft^3/s)
		Mystic River basin--Continued				
01102480	Aberjona River at Swanton St., Winchester, Mass.	Lat 42°27'39", long 71°08'15", Middlesex County, 20 ft above bridge on Swanton St., 0.6 mi north of Winchester.	13.5i	1973-74	10-15-73 10-16-73 3-27-74 7-29-74 8- 9-74 9-13-74	2.3 2.1 c21 2.8 1.3 1.3
01102485	Cummings Brook near Woburn, Mass.	Lat 42°28'23", long 71°10'22", Middlesex County, at culvert on Lexington St., 1.1 mi west of Woburn.	3.34	1973-74	10- 2-73 10-27-73 7-29-74 8- 9-74 9-13-74	1.1 .94 .86 .57 .74
01102490	Shaker Glen Brook near Woburn, Mass.	Lat 42°28'16", long 71°10'34", Middlesex County, at culvert on Lexington St., 1.3 mi west of Woburn.	2.66	1973-74	10- 2-73 10-27-73 7-29-74 8- 9-74 9-13-74	.81 .85 .84 .56 .76
		Weweantic River basin				
01105905	Sippican River near Marion, Mass.	Lat 41°44'05", long 70°46'30", Plymouth County, at bridge on County Rd., 2.5 mi north of Marion.	26.1	1972-74	7-17-74b	10
		Aucoot River basin				
01105908	Aucoot Creek near Marion, Mass.	Lat 41°41'05", long 70°46'25", Plymouth County, at culvert on U.S. Highway 6, 1.5 mi south of Marion.	2.71	1972-74	7-17-74b 8-19-74b	0.44 .12
		Mattapoisett River basin				
01105911	Mattapoisett River at Rounseville Rd., near Rochester, Mass.	Lat 41°44'10", long 70°51'45", Plymouth County, at bridge on Rounseville Rd., 2.2 mi west of Rochester.	11.2	1972-74	7-17-74b 8-19-74b	3.2 1.3
01105914	Mattapoisett River at Tinkham Lane, near Mattapoisett, Mass.	Lat 41°41'05", long 70°50'30", Plymouth County, at bridge on Tinkham Lane, 2 mi northwest of Mattapoisett.	18.2	1972-74	7-17-74b 8-19-74b	4.3 5.9
01105917	Mattapoisett River near Mattapoisett, Mass.	Lat 41°39'45", long 70°50'20", Plymouth County, 0.4 mi above bridge on U.S. Highway 6, 1.5 mi west of Mattapoisett.	24.0	1965g, 1972-74	8-19-74b	.52
		Acushnet River basin				
01105924	Acushnet River at Leonard Street, near Acushnet, Mass.	Lat 41°43'25", long 70°53'50", Bristol County, at bridge on Leonard St., 2.5 mi north of Acushnet.	7.51	1972-74	7-17-74b 8-19-74b	3.1 .24
01105926	Acushnet River at Acushnet, Mass.	Lat 41°41'45", long 70°54'52", Bristol County, at bridge on Hamlin Rd., 1 mi north of Acushnet.	16.4	1972-74	7-17-74b 8-19-74b	4.2 .55
		Buttonwood Brook basin				
01105928	Buttonwood Brook near South Dartmouth, Mass.	Lat 41°36'15", long 70°57'20", Bristol County, at bridge on Russells Mills Rd., 1.5 mi northwest of South Dartmouth.	2.93	1972-74	7-17-74b 8-19-74b	0.45 0
		Slocums River basin				
01105933	Paskamanset River near South Dartmouth, Mass.	Lat 41°35'07", long 70°59'25", Bristol County, at bridge on Russells Mills Rd., 3 mi west of South Dartmouth.	26.1	1972-74	7-17-74b 8-19-74b	7.9 1.4
01105935	Destruction Brook near South Dartmouth, Mass.	Lat 41°34'20", long 71°00'50", Bristol County, at bridge on Slades Corner Rd., 5 mi southwest of South Dartmouth.	2.63	1972-74	7-17-74b 8-19-74b	.94 .30
		East Branch Westport River basin				
01105937	Shingle Island River near North Dartmouth, Mass.	Lat 41°40'50", long 71°01'05", Bristol County, at bridge on Old Fall River Rd., 3 mi northwest of North Dartmouth.	8.31	1972-74	7-18-74b 8-19-74	2.1 .04

b Record of chemical analysis for this date in Part 2 of this report.
c Not base flow.
g Published in table of "Measurements at Miscellaneous Sites."
i Excludes 0.62 mi^2 of Winchester's North Reservoir.

Discharge measurements made at low-flow partial-record stations during water year 1974--Continued

Station No.	Station name	Location	Drainage area (mi^2)	Period of record	Measurements	
					Date	Discharge (ft^3/s)
		East Branch Westport River basin--Continued				
01105943	Shingle Island River at Hixville Road, near North Dartmouth, Mass.	Lat 41°40'10", long 71°01'32", Bristol County, at culvert on Hixville Rd., 3 mi northwest of North Dartmouth.	18.1	1972-74	7-18-74b 8-19-74b	6.5 3.3
01105947	Bread and Cheese Brook at Head of Westport, Mass.	Lat 41°38'00", long 71°03'46", Bristol County, at culvert on State Highway 177, 1 mi north of Head of Westport.	8.70	1972-74	7-18-74b 8-19-74b	1.7 .18
*01105950	Kirby Brook near Head of Westport, Mass.	Lat 41°36'02", long 71°04'25", Bristol County, at culvert on Drift Rd., 1.5 mi south of Head of Westport.	3.69	1965, 1972-74	7-17-74b 8-19-74b	.05 0
		West Branch Westport River basin				
01106005	Angeline Brook near Westport Point, Mass.	Lat 41°33'05", long 71°06'20", Bristol County, at culvert on Cornell Rd., 2.5 mi northwest of Westport Point.	3.22	1972-74	7-17-74b 8-19-74	0.32 0
		Lee River basin				
01109130	Lewin Brook at Swansea, Mass.	Lat 41°44'55", long 71°11'45", Bristol County, at culvert on Stevens Rd., at Swansea.	2.83	1973-74	7-18-74b 8-19-74	0.14 .05
		Cole River basin				
01109135	Cole River near Swansea, Mass.	Lat 41°46'30", long 71°12'00", Bristol County, at bridge on Hortonville Rd., 2 mi north of Swansea.	7.79	1972-74	7-18-74b 8-20-74	0.89 .01
		Palmer River basin				
01109195	East Branch Palmer River at Rehoboth, Mass.	Lat 41°50'30", long 71°14'35", Bristol County, at bridge on State Highway 118, at Rehoboth.	11.7	1972-74	7-18-74b 8-20-74b	1.3 2.2
01109215	Palmer River near Rehoboth, Mass.	Lat 41°49'50", long 71°16'55", Bristol County, at bridge on Summer St., 2 mi southwest of Rehoboth.	23.0	1972-74	7-18-74b 8-20-74b	5.0 4.1
01109225	Rocky Run near Rehoboth, Mass.	Lat 41°46'52", long 71°15'05", Bristol County, at culvert on Davis St., 4 mi south of Rehoboth.	7.37	1972-74	7-18-74b 8-20-74b	1.4 .02
		Runnins River basin				
*01109270	Runnins River at Seekonk, Mass.	Lat 41°49'25", long 71°20'00", Bristol County, at culvert on Pleasant St., 1 mi north of Seekonk.	4.24	1972-74	7-17-74b 8-20-74b	0.42 .18

* Also a crest-stage partial-record station.

b Record of chemical analysis for this date in Part 2 of this report.

Crest-stage partial-record stations

The following table contains annual maximum discharges for crest-stage stations. A crest-stage gage is a device which will register the peak stage occurring between inspections of the gage. A stage-discharge relation for each gage is developed from discharge measurements made by indirect measurements of peak flow or by current meter. The date of the maximum discharge is not always certain but is usually determined by comparison with nearby continuous-record stations, weather records, or local inquiry. Only the maximum discharge for each water year is given. Information on some lower floods may have been obtained, and discharge measurements may have been made for purposes of establishing the stage-discharge relation, but these are not published herein. The years given in the period of record represent water years for which the annual maximum has been determined.

Annual maximum discharge at crest-stage partial-record stations during water year 1974

Station No.	Station name	Location	Drainage area (mi²)	Period of record	Annual maximum Date	Gage height (feet)	Discharge (ft³/s)
Androscoggin River basin							
01054120	Josh Brook near Gorham, N.H.	Lat 44°23'15", long 71°07'58", Coos County, at culvert on U.S. Highway 2, 2 mi east of Gorham.	0.67	1973-74	12-21-73	19.37	260
Saco River basin							
01064250	Albany Brook tributary near Bartlett, N.H.	Lat 44°04'23", long 71°18'10", Carroll County, at culvert on U.S. Highway 302, 1 mi west of Bartlett.	0.20	1973-74	12-21-73	7.66	140
01064310	Ellis River tributary near Jackson, N.H.	Lat 44°09'42", long 71°12'57", Carroll County, at culvert on State Highway 16, 2 mi northwest of Jackson.	.78	1974	12-21-73	-	b115
01064380	East Branch Saco River near Lower Bartlett, N.H.	Lat 44°07'21", long 71°07'50", Carroll County, at bridge on gravel road, 1.7 mi northeast of Lower Bartlett.	32.0	1967-74	12-21-73	3.45	3,900
01064750	Meadow Brook near Sandwich, N.H.	Lat 43°47'53", long 71°22'30", Carroll County, at culvert on Little Pond Rd., 0.3 mi west of State Highway 25 and 1.9 mi east of Sandwich.	.67	1973-74	12-21-73	6.94	57
01064780	Square Brook near Freedom, N.H.	Lat 43°49'55", long 71°04'35", Carroll County, at culvert on State Highway 153, 2.4 mi northwest of Freedom and 2.7 mi north of Effingham Falls.	1.20	1973-74	12-21-73	7.59	31
Piscataqua River Basin							
01073750	Mill Brook at Stratham, N.H.	Lat 43°01'24", long 70°55'04", Rockingham County, at culvert on southbound lane of State Highway 101 and 108, 0.3 mi west of Stratham.	2.30	1973-74	12-21-73	-	645
01073850	Hampton Falls River near Hampton Falls,	Lat 42°54'35", long 70°52'58", Rockingham County, at culvert on N.H. Highway 150, 0.3 mi west of Interstate Highway 95 and 1.1 mi southwest of Hampton Falls.	4.73	1973-74	3-19-74	16.76	145
Merrimack River basin							
01074250	Hancock Branch tributary near Lincoln, N.H.	Lat 44°03'45", long 71°35'15", Grafton County, at culvert on State Highway 112, 4.5 mi east of Lincoln and 700 ft east of highway bridge over East Branch Pemigewasset River.	0.58	1974	-	(a)	-
01078800	West Alton Brook near Alton, N.H.	Lat 43°32'10", long 71°19'22", Belknap County at culvert on State Highway 11 A, 1.2 mi west of junction with State Highway 11, and 1.3 mi south of West Alton.	2.39	1973-74	12-21-73	4.99	75
01081900	Town Line Brook tributary near Peterborough, N.H.	Lat 42°51'09", long 71°54'14", Hillsborough County, at culvert on State Highway 101, 2.8 mi west of Peterborough, and 5 mi west of West Wilton.	.75	1972-74	12-21-73	8.62	150
01082490	Mud Pond tributary near Dublin, N.H.	Lat 42°54'08", long 72°01'52", Cheshire County, at culvert on secondary dead-end road, 0.1 mi south of State Highway 101, and 0.3 mi west of Bonds Corner.	1.39	1972-74	12-21-73	10.93	120
01084500	Beards Brook near Hillsboro, N.H.	Lat 43°06'51", long 71°55'36", Hillsborough County, 300 ft above bridge on State Highway 9, 500 ft above mouth, and 1.5 mi west of Hillsboro.	55.4	1946-70‡, 1971-74	12-21-73	6.35	2,080

‡ Operated as a continuous-record gaging station.
a Peak stage did not reach bottom of the gage.
b Estimated.

Annual maximum discharge at crest-stage partial-record stations during water year 1974--Continued

Station No.	Station name	Location	Drainage area (mi²)	Period of record	Annual maximum		
					Date	Gage height (feet)	Discharge (ft³/s)
		Merrimack River basin--Continued					
01089500	Suncook River at North Chichester, N.H.	Lat 43°15'23", long 71°22'10", Merrimack County, 100 ft below bridge on Depot Rd. at North Chichester and 3.1 mi above Little Suncook River.	157	1918-27‡, 1929-70‡, 1972-74	12-21-73	8.60	1,780
01089750	Marden Brook near Epsom, N.H.	Lat 43°12'13", long 71°23'16", Merrimack County, at culvert on State Highway 28, 2 mi south of Epsom.	1.16	1973-74	3-17-74	7.07	34
01090480	Rays Brook at Manchester, N.H.	Lat 43°01'08", long 71°27'02", Hillsboro County, at culvert on Campbell St., Manchester, 0.1 mi upstream from Dorrs Pond.	1.74	1973-74	-	(a)	b12
01094006	McQuade Brook near Bedford, N.H.	Lat 42°55'45", long 71°33'20", Hillsborough County, at culvert on North Amherst Rd. at junction with Hardy Rd., 2.3 mi southwest of Bedford.	4.13	1972-74	12-21-73	16.15	100
01095200	Houghton Brook near Oakdale, Mass.	Lat 42°24'57", long 71°48'12", Worcester County, at culvert on State Highway 140, 2 mi north of Oakdale.	.69	1964-74	12-21-73	6.87	17
01095800	Easter Brook near North Leominster, Mass.	Lat 42°32'46", long 71°42'45", Worcester County, at culvert on Lancaster Ave., 1.5 mi east of North Leominster.	.92	1964-74	12-21-73	14.49	55
01097200	Heath Hen Meadow Brook at Stow, Mass.	Lat 42°26'44", long 71°30'02", Middlesex County, at culvert on West Acton Rd., 0.7 mi northeast of Stow.	3.89	1964-74	3-23-74	4.94	45
01097450	Jackstraw Brook at Hopkinton Road, Westborough, Mass.	Lat 42°15'28", long 71°36'13", Worcester County, at culvert on Hopkinton Rd. (Route 135), 0.9 mi southeast of Westborough.	1.24	1972-74	3-23-74	8.24	43
01098700	Hayward Brook at Wayland, Mass.	Lat 42°21'40", long 71°20'51", Middlesex County, at culvert on U.S. Highway 20, 0.7 mi east of Wayland.	2.32	1964-74	12-18-73	6.79	28
*01100100	Richardson Brook near Lowell, Mass.	Lat 42°39'48", long 71°16'02", Middlesex County, at culvert on Methuen St., 3 mi northeast of Lowell.	4.32	1963-74	12-18-73	13.15	128
*01100800	Cobbler Brook near Merrimac, Mass.	Lat 42°50'55", long 71°01'10", Essex County, at culvert on Highland St., 1.3 mi northwest of Merrimac.	.77	1963-74	2-20-74	8.31	38
		Parker River basin					
01100900	Parker River tributary near Georgetown, Mass.	Lat 42°44'03", long 70°58'22", Essex County, at culvert on North St., 1.2 mi northeast of Georgetown.	0.65	1964-74	3-23-74	10.47	19
		Charles River basin					
01104600	Beaver Brook at Belmont, Mass.	Lat 42°23'26", long 71°11'51", Middlesex County, at culvert on State Highway 60 (Trapelo Rd.), 1 mi southwest of Belmont.	4.09	1963-74	12-18-73	10.89	112
		Neponset River basin					
01104900	Mill Brook at Westwood, Mass.	Lat 42°12'21", long 71°14'26", Norfolk County, at culvert on State Highway 109, at Westwood.	1.52	1964-74	3-21-74	7.40	39
01105550	Plantingfield Brook at Norwood, Mass.	Lat 42°12'17", long 71°11'13", Norfolk County, at culvert on State Highway 1, 1.0 mi northeast of Norwood.	1.52	1964-74	3-21-74	14.83	185
		South River basin					
01105850	Furnace Brook near Marshfield, Mass.	Lat 42°06'30", long 70°43'53", Plymouth County, at culvert on Furnace St., 1.7 mi northwest of Marshfield.	1.61	1964-74	12-18-73	9.87	70
		East Branch Westport River basin					
*01105950	Kirby Brook near Head of Westport, Mass.	Lat 41°36'02", long 71°04'25", Bristol County, at culvert on Drift Rd., 1.5 mi south of Head of Westport.	3.69	1964-74	12-18-73	10.63	249

* Also a low-flow partial-record station.
a Peak stage did not reach bottom of the gage.
b Estimated.

Annual maximum discharge at crest-stage partial-record stations during water year 1974--Continued

Station No.	Station name	Location	Drainage area (mi²)	Period of record	Annual maximum Date	Annual maximum Gage height (feet)	Annual maximum Dis-charge (ft³/s)
		Cold Brook basin					
01106100	Cold Brook near Adamsville, R.I.	Lat 41°32'37", long 71°05'05", Newport County, at culvert on Cold Brook Rd., 1.3 mi southwest of Adamsville.	1.15	1966-74	12-18-73	10.08	65
		Taunton River basin					
01108485	Meadow Brook tributary near Whitman, Mass.	Lat 42°04'11", long 70°57'34", Plymouth County, at culvert on Auburn St., 1.3 mi southwest of Whitman.	1.04	1967-74	12-18-73	8.39	93
01108100	Snows Brook near Bridgewater, Mass.	Lat 41°56'53", long 70°59'37", Plymouth County, at culvert on Cross St., 3 mi south of Bridgewater.	1.41	1964-74	12-18-73	8.68	115
01109050	Threemile River tributary near Oakland, Mass.	Lat 41°55'38", long 71°09'17", Bristol County, at culvert on State Highway 140, 1.3 mi northwest of Oakland.	.50	1964-74	12-18-73	7.04	32
01109075	Holloway Brook near Myricks, Mass.	Lat 41°49'34", long 70°59'25", Plymouth County, at culvert on Pickens St., 2.0 mi east of Myricks.	1.16	1967-74	12-18-73	6.59	61
01109085	Quaker Brook near Myricks, Mass.	Lat 41°49'29", long 71°03'18", Bristol County, at culvert on Bryant St., 1.5 mi southwest of Myricks.	1.94	1967-74	12-18-73	9.82	149
01109100	Taunton River tributary near Fall River, Mass.	Lat 41°45'31", long 71°07'01", Bristol County, at culvert on State Highway 79, 4 mi northeast of Fall River.	.25	1964-74	12-18-73	11.18	52
		Runnins River basin					
*01109270	Runnins River at Seekonk, Mass.	Lat 41°49'25", long 71°20'00", Bristol County, at culvert on Pleasant St., 1.0 mi north of Seekonk.	4.24	1967-74	12-18-73	6.54	96
		Metacomet Brook basin					
01109300	Metacomet Brook at East Providence, R.I.	Lat 41°48'19", long 71°22'25", Providence County, at culvert on South Broadway, at East Providence.	0.82	1966-74	12-18-73	-	680
		Blackstone River basin					
01111250	Dry Arm Brook near Wallum Lake, R.I.	Lat 41°58'22", long 71°45'03", Providence County, at culvert on State Highway 100, 1.8 mi south of Wallum Lake.	1.74	1966-74	3-22-74	8.35	58
01111450	Mowry Paine Brook near Chepachet, R.I.	Lat 41°55'19", long 71°37'26", Providence County, at culvert on Cooper Rd., 2.5 mi northeast of Chepachet.	1.87	1966-74	12-18-73	7.93	100
01112300	Bungay Brook near Sheldonville, Mass.	Lat 42°01'29", long 71°27'24", Bristol County, at culvert on Wrentham St., 3.5 mi west of Sheldonville.	2.66	1964-74	12-18-73	6.93	98
01113600	Blackstone River tributary No. 2 at Berkeley, R.I.	Lat 41°55'27", long 71°24'49", Providence County, at culvert on State Highway 122, 0.5 mi southeast of Berkeley.	1.04	1966-74	12-14-73	5.75	26
		Pawtuxet River basin					
01115200	Shippee Brook tributary at North Foster, R.I.	Lat 41°49'53", long 71°45'10", Providence County, at culvert on Willoughby Young Rd., at North Foster.	0.55	1966-74	3-21-74	5.18	28
01115300	Wilbur Hollow Brook near Clayville, R.I.	Lat 41°46'06", long 71°38'03", Providence County, at culvert on State Highway 12, 2.3 mi east of Clayville.	4.61	1966-74	12-18-73	12.27	133
01115630	Bear Brook near Coventry, R.I.	Lat 41°39'37", long 71°37'42", Kent County, at culvert on Fish Hill Rd., 3 mi south of Coventry.	3.98	1966-74	12-17-73	9.23	130
01116600	Pocasset River near North Scituate, R.I.	Lat 41°50'13", long 71°31'49", Providence County, at culvert on Belfield Drive, 3 mi east of North Scituate.	1.34	1966-74	12-17-73	8.24	28

*Also a low-flow partial-record station.

Annual maximum discharge at crest-stage partial-record stations during water year 1974--Continued

Station No.	Station name	Location	Drainage area (mi^2)	Period of record	Annual maximum Date	Annual maximum Gage height (feet)	Annual maximum Discharge (ft^3/s)
Hardig Brook basin							
01116550	Hardig Brook near West Warwick, R.I.	Lat 41°41'38", long 71°28'52", Providence County, at culvert on Hardig Rd., 2.5 mi southeast of West Warwick.	3.16	1966-74	12-17-73	4.70	235
Potowomut River basin							
01116870	Frenchtown Brook near Davisville, R.I.	Lat 41°37'47", long 71°30'51", Providence County, at culvert on Tillinghast Rd., 2.3 mi northwest of Davisville.	3.12	1966-74	12-17-73	3.95	36
Smelt Brook basin							
01117250	Browns Brook at Wakefield, R.I.	Lat 41°25'56", long 71°31'24", Washington County, at culvert on Tuckertown Rd., 1 mi southwest of Wakefield.	0.50	1966-74	12-17-73	9.00	13
Pawcatuck River basin							
01117400	Glen Rock Brook tributary at Usquepaug, R.I.	Lat 41°31'04", long 71°36'18", Washington County, at culvert on Glen Rock Rd., 1 mi north of Usquepaug.	1.04	1966-74	12-17-73	5.37	59
01117820	Wood River tributary near Arcadia, R.I.	Lat 41°34'32", long 71°42'52", Washington County, at culvert on State Highway 165, 1.8 mi northwest of Arcadia.	.77	1966-74	12-17-73	8.50	15
01118020	Perry Healy Brook near Bradford, R.I.	Lat 41°22'41", long 71°43'42", Washington County, at culvert on State Highway 216, 2 mi southeast of Bradford.	1.82	1966-74	12-17-73	7.55	29
Thames River basin							
01123160	Wales Brook tributary near Wales, Mass.	Lat 42°04'48", long 72°11'51", Hampden County, at culvert on Holland Rd., 1.5 mi northeast of Wales.	0.71	1964-74	3-21-74	7.48	19
01124050	Tufts Branch at Dudley, Mass.	Lat 42°03'11", long 71°56'22", Worcester County, at culvert on Dudley-Southbridge Rd., 0.7 mi northwest of Dudley.	1.06	1963-74	3-21-74	11.62	78
Connecticut River basin							
01129210	Ad Chase Brook near Pittsburg, N.H.	Lat 45°02'20", long 71°27'10", Coos County, at culvert on U.S. Highway 3, 100 ft above mouth, 1 mi below Indian Stream, and 3 mi southwest of Pittsburg.	1.62	1973-74	12-21-73	23.7	150
01129400	Black Brook at Averill, Vt.	Lat 45°00'14", long 71°41'34", Essex County, at culvert on State Highway 114, 1 mi northeast of Averill.	.58	1964-74	12-21-73	12.32	54
01129700	Paul Stream tributary near Brunswick, Vt.	Lat 44°41'06", long 71°37'18", Essex County, at culvert on macadam road leading to Maidstone Lake, 3.5 mi south of Brunswick.	1.29	1966-74	12-21-73	-	b65
01129850	Connecticut River tributary near Stratford, N.H.	Lat 44°38'42", long 71°32'38", Coos County, at culvert on U.S. Highway 3, 0.8 mi south of Stratford.	1.51	1973-74	12-21-73	12.05	60
01129950	Upper Ammonoosuc River tributary near Stark, N.H.	Lat 44°35'48", long 71°25'30", Coos County, at culvert on State Highway 110, 1.1 mi west of Stark.	.58	1973-74	12-21-73	16.59	27
01131250	Cherry Mountain Brook tributary near Twin Mountain, N.H.	Lat 44°18'40", long 71°31'40", Coos County, at culvert on State Highway 115, 1.1 mi north of junction with U.S. Highway 3, and 2.8 mi north of Twin Mountain.	1.31	1973-74	12-21-73	17.31	155
01133200	Quimby Brook near Lyndonville, Vt.	Lat 44°34'52", long 71°59'11", Caledonia County, at culvert on dirt road, 3.5 mi north of Lyndonville.	2.32	1964-74	12-21-73	12.43	142
01133300	Cold Hill Brook near Lyndon, Vt.	Lat 44°31'47", long 72°03'01", Caledonia County, at culvert on dirt road, 2 mi northwest of Lyndon.	1.52	1964-74	4-24-74	10.80	35
01135700	Joes Brook tributary near East Barnet, Vt.	Lat 44°20'40", long 72°03'52", Caledonia County, at culvert on dirt road, 1.8 mi northwest of East Barnet.	.76	1964-74	4-23-74	11.60	48

b Estimated.

Annual maximum discharge at crest-stage partial-record stations during water year 1974--Continued

Station No.	Station name	Location	Drainage area (mi²)	Period of record	Annual maximum		
					Date	Gage height (feet)	Dis-charge (ft³/s)
		Connecticut River basin--Continued					
01137850	Ammonoosuc River tributary near Littleton, N.H.	Lat 44°18'58", long 71°47'45", Grafton County, at culvert on State Highway 18, 1 mi west of Littleton.	2.42	1974	4-18-74	-	636
01138800	Keenan Brook at Groton, Vt.	Lat 44°12'10", long 72°12'05", Caledonia County, at culvert on macadam road, 0.6 mi south of Groton.	4.26	1964-74	12-21-73	14.70	180
01139700	Waits River tributary near West Topsham, Vt.	Lat 44°08'29", long 72°18'52", Orange County, at culvert on U.S. Highway 302, 2 mi north of West Topsham.	1.09	1964-74	12-21-73	10.91	94
01140100	South Branch Waits River tributary near Bradford Center, Vt.	Lat 44°01'14", long 72°12'14", Orange County, at culvert on macadam road, 2 mi northwest of Bradford Center.	.27	1964-74	4-14-74	10.93	9
01140800	West Branch Ompompanoosuc River tributary at South Strafford, Vt.	Lat 43°49'56", long 72°22'20", Orange County, at culvert on dirt road at South Strafford.	1.33	1964-74	12-21-73	11.07	76
01142400	Third Branch White River tributary at Randolph, Vt.	Lat 43°55'54", long 72°40'58", Orange County, at culvert on State Highway 12A, 1 mi northwest of Randolph.	.77	1964-74	12-21-73	10.82	49
01151200	Ottauquechee River tributary near Quechee, Vt.	Lat 43°39'37", long 72°25'55", Windsor County, at culvert on Quechee Rd., 1.2 mi northwest of Quechee.	.82	1964-74	12-21-73	10.13	23
01153300	Middle Branch Williams River tributary at Chester, Vt.	Lat 43°16'13", long 72°36'32", Windsor County, at culvert on macadam road at Chester.	3.16	1964-74	12-21-73	19.78	180
01153800	Bull Creek tributary near Athens, Vt.	Lat 43°06'08", long 72°34'55", Windham County, at culvert on gravel road, 2 mi southwest of Athens.	.60	1967-74	12-21-73	10.92	22
01155350	West River tributary near Jamaica, Vt.	Lat 43°07'32", long 72°48'47", Windham County, at culvert on State Highway 100, 2.5 mi northwest of Jamaica.	90	1964-74	12-21-73	9.39	67
01156300	Whetstone Brook tributary near Marlboro, Vt.	Lat 42°52'42", long 72°42'30", Windham County, at culvert on State Highway 9, 1.5 mi northeast of Marlboro.	1.05	1963-74	12-21-73	5.10	90
01156450	Connecticut River tributary near Vernon, Vt.	Lat 42°47'01", long 72°31'57", Windham County, at culvert on macadam road, 1.5 mi northwest of Vernon.	1.12	1964-74	12-21-73	8.98	58
01161300	Millers Brook at Northfield, Mass.	Lat 42°41'07", long 72°27'11", Franklin County, at culvert on Beers Plain Rd., 0.8 mi south of Northfield.	2.33	1964-74	12-21-73	18.36	287
01163100	Wilder Brook near Gardner, Mass.	Lat 42°35'42", long 72°00'53", Worcester County, at culvert on Clark St., 1.5 mi northwest of Gardner.	2.50	1964-74	12-21-73	11.69	41
01170200	Allen Brook near Shelburne Falls, Mass.	Lat 42°36'46", long 72°40'02", Franklin County, at culvert on Peckville Rd., 3.5 mi east of Shelburne Falls.	.73	1964-74	12-21-73	6.58	36
01170900	Mill River near South Deerfield, Mass.	Lat 42°28'09", long 72°38'31", Franklin County, at culvert on North St., 2 mi southwest of South Deerfield.	6.37	1963-74	3-21-74	11.63	180
01171200	Scarboro Brook at Dwight, Mass.	Lat 42°19'44", long 72°26'47", Hampshire County, at culvert on State Highway 9, at Dwight.	2.92	1963-66, 1968-74	12-21-73	16.23	148
01171910	Broad Brook near Holyoke, Mass.	Lat 42°11'59", long 72°41'11", Hampden County, at culvert on Keys Rd., 3.5 mi west of Holyoke.	2.26	1965-74	12-21-73	16.93	52
01173040	Pleasant Brook near Barre, Mass.	Lat 42°25'44", long 72°04'35", Worcester County, at culvert on State Highway 62, 1.5 mi east of Barre.	1.11	1965-74	12-21-73	10.52	123
01173330	Fish Brook near Gilbertville, Mass.	Lat 42°19'24", long 72°11'11", Worcester County, at culvert on Goddard Rd., 1.2 mi northwest of Gilbertville.	1.01	1964-74	12-21-73	15.37	104

Annual maximum discharge at crest-stage partial-record stations during water year 1974--Continued

Station No.	Station name	Location	Drainage area (mi^2)	Period of record	Annual maximum		
					Date	Gage height (feet)	Discharge (ft^3/s)
		Connecticut River basin--Continued					
01173900	Middle Branch Swift River at North New Salem, Mass.	Lat 42°32'45", long 72°19'10", Franklin County, at culvert on Elm St., at North New Salem.	4.73	1964-74	12-21-73	9.45	320
01176450	Roaring Brook near Belchertown, Mass.	Lat 42°14'07", long 72°24'18", Hampshire County, at culvert on State Highway 21, 4 mi south of Belchertown.	2.77	1963-74	3-21-74	12.36	155
01178230	Mill Brook at Plainfield, Mass.	Lat 42°30'57", long 72°55'30", Hampshire County, at culvert on High St., 0.4 mi west of Plainfield.	4.47	1964-74	12-21-73	16.24	290
01180100	Fuller Brook near Peru, Mass.	Lat 42°25'59", long 73°01'19", Hampshire County, at culvert on State Highway 143, 1.3 mi southeast of Peru.	2.07	1967-74	12-21-73	18.49	244
01183100	Seymour Brook tributary at Granville, Mass.	Lat 42°03'53", long 72°51'42", Hampden County, at culvert on State Highway 189, at Granville.	.66	1964-74	12-21-73	11.31	38
01183810	Longmeadow Brook at Pondside Rd., near Longmeadow, Mass.	Lat 42°02'22", long 72°35'32", Hampden County, at culvert on Pondside Rd., 2 mi southwest of Longmeadow.	4.15	1967-74	12-21-73	6.13	145
01184900	Haley Pond Outlet (tributary to Big Pond) near Otis, Mass.	Lat 42°12'15", long 73°01'56", Berkshire County, at culvert on Algerie Rd., 3 mi northeast of Otis.	.27	1964-74	12-21-73	12.01	30
		Housatonic River basin					
01196990	Windsor Brook tributary at Windsor, Mass.	Lat 42°30'41", long 73°04'37", Berkshire County, at culvert on State Highway 9, 0.9 mi west of Windsor.	0.29	1964-74	12-21-73	11.64	52
01197050	Churchill Brook at Pittsfield, Mass.	Lat 42°29'28", long 73°16'56", Berkshire County, at culvert on Churchill St., at north limits of Pittsfield.	1.16	1964-74	12-21-73	-	b139
01197155	Housatonic River tributary No. 2 at Lee, Mass.	Lat 42°18'21", long 73°13'49", Berkshire County, at culvert on East St., 1.0 mi east of Lee.	.73	1965-74	12-21-73	7.72	88
01197550	Housatonic River tributary at Risingdale, Mass.	Lat 42°13'57", long 73°20'47", Berkshire County, at culvert on State Highway 183, 0.7 mi southeast of Risingdale.	.69	1963-74	12-21-73	17.14	47
		Hudson River basin					
01328900	Tanner Brook near Sunderland, Vt.	Lat 43°07'52", long 73°05'45", Bennington County, at culvert on U.S. Highway 7, 1.3 mi north of Sunderland.	2.60	1964-74	4-15-74	10.71	37
01333800	South Stream near Bennington, Vt.	Lat 42°49'53", long 73°10'04", Bennington County, at culvert on South Stream Rd., 3.5 mi southeast of Bennington.	7.70	1963-74	12-21-73	10.74	118
01333900	Paran Creek near South Shaftsbury, Vt.	Lat 42°58'13", long 73°11'19", Bennington County, at culvert on dirt road, 2 mi northeast of South Shaftsbury.	2.38	1964-74	6-17-74	8.31	84
		St. Lawrence River basin					
04279400	Poultney River tributary at East Poultney, Vt.	Lat 43°32'17", long 73°12'36", Rutland County, at culvert 1.0 mi north of East Poultney.	1.13	1964-74	12-21-73	11.47	73
04280200	Mettawee River tributary No. 2 at East Rupert, Vt.	Lat 43°16'16", long 73°07'23", Bennington County, at culvert on State Highway 30, at East Rupert.	1.86	1963-74	2-23-74	14.56	107
04280900	Moon Brook at Rutland, Vt.	Lat 43°36'33", long 72°57'25", Rutland County, at culvert on macadam road, 1.0 mi east of Rutland.	2.12	1964-74	2-23-74	11.63	115
04282200	Neshobe River at Brandon, Vt.	Lat 43°48'37", long 73°04'36", Rutland County, at bridge on dirt road, 1.0 mi northeast of Brandon.	20.1	1968-74	12-21-73	8.12	730
04282300	Brandy Brook at Bread Loaf, Vt.	Lat 43°57'19", long 72°59'49", Addison County, at culvert on State Highway 125, at Bread Loaf, and 2 mi east of Ripton.	2.24	1963-74	12-21-73	12.30	134

b Estimated.

Annual maximum discharge at crest-stage partial-record stations during water year 1974--Continued

Station No.	Station name	Location	Drainage area (mi²)	Period of record	Annual maximum		
					Date	Gage height (feet)	Discharge (ft³/s)
St. Lawrence River basin--Continued							
04282550	Beaver Brook at Cornwall, Vt.	Lat 43°57'29", long 73°12'51", Addison County, at culvert on State Highway 74, at Cornwall.	1.11	1964-74	12-21-73	10.84	60
04282600	Little Otter Creek tributary near Bristol, Vt.	Lat 44°08'44", long 73°07'05", Addison County, at culvert on dirt road, 2 mi northwest of Bristol.	1.48	1964-74	12-21-73	12.82	57
04282750	Lewis Creek tributary No. 2 near Rockville, Vt.	Lat 44°15'54", long 73°04'02", Addison County, at culvert on State Highway 116, 1.3 mi north of Rockville.	1.07	1964-74	12-21-73	13.86	95
04282850	Winooski River tributary No. 2 near Cabot, Vt.	Lat 44°25'53", long 72°18'09", Washington County, at culvert on macadam road, 2 mi north of Cabot.	1.10	1964-74	12-21-73	11.52	29
04284300	Stevens Branch tributary at South Barre, Vt.	Lat 44°10'51", long 72°31'11", Washington County, at culvert on dirt road, 0.7 mi west of South Barre.	.39	1964-74	4-14-74	12.78	38
04288400	Bryant Brook at Waterbury Center, Vt.	Lat 44°22'41", long 72°43'29", Washington County, at culvert on State Highway 100, at Waterbury Center.	2.64	1964-74	4- 4-74	12.27	165
04289600	Winooski River tributary near Richmond, Vt.	Lat 44°26'09", long 72°58'46", Chittenden County, at culvert on macadam road, 2 mi north of Richmond.	.71	1964-74	4- 4-74	11.53	33
04290700	Bailey Brook at East Hardwick, Vt.	Lat 44°31'41", long 72°18'16", Caledonia County, at culvert on macadam road, 0.5 mi northeast of East Hardwick.	2.52	1964-74	6-17-74	11.87	98
04292150	Gihon River tributary near Johnson, Vt.	Lat 44°39'36", long 72°37'44", Lamoille County, at culvert on State Highway 100 C, 3 mi northeast of Johnson.	.31	1964-74	4-22-74	11.05	51
04292200	Lamoille River tributary at Jeffersonville, Vt.	Lat 44°39'13", long 72°49'42", Lamoille County, at culvert on State Highway 108, at Jeffersonville.	.58	1964-74	4-22-74	11.64	35
04293400	Whittaker Brook at Richford, Vt.	Lat 44°59'14", long 72°39'13", Franklin County, at culvert on State Highway 105, 1 mi east of Richford.	.64	1963-74	7-10-74	10.19	80
04293800	Missisquoi River tributary at Sheldon Junction, Vt.	Lat 44°54'01", long 72°57'35", Franklin County, at culvert on State Highway 105, at Sheldon Junction.	1.69	1963-74	4- 3-74	12.97	81
04294200	Saxe Brook near Highgate Springs, Vt.	Lat 44°59'38", long 73°03'59", Franklin County, at culvert on dirt road, 2.5 mi northeast of Highgate Springs.	2.79	1963-74	4- 3-74	14.28	117
04295900	Ware Brook near Coventry, Vt.	Lat 44°51'02", long 72°17'33", Orleans County, at culvert on dirt road, 2 mi southwest of Coventry.	2.87	1963-74	7-10-74	13.48	120
04296150	Lord Brook near Evansville, Vt.	Lat 44°46'59", long 72°07'08", Orleans County, at culvert on State Highway 16, 1.5 mi south of Evansville.	4.76	1964-74	12-21-73	13.48	268
04296300	Pherrins River tributary near Island Pond, Vt.	Lat 44°50'33", long 71°54'32", Essex County, at culvert on State Highway 114, 2.3 mi northwest of Island Pond.	1.05	1964-74	12-21-73	10.12	35

Measurements at miscellaneous sites

Measurements of streamflow at points other than gaging stations or partial-record stations are given in the following table. Those that are measurements of base flow are designated by an asterisk(*).

Discharge measurements made at miscellaneous sites during water year 1974

Stream	Tributary to	Location	Drainage area (mi²)	Measured previously (water years)	Measurements	
					Date	Discharge (ft³/s)
		Merrimack River basin				
Whitman River	North Nashua River	Lat 42°33'35", long 71°52'02", Worcester County, at State Highway 2A, 2.5 mi northeast of Westminster, Mass.	-	1973	1- 8-74a	40
North Nashua River	Merrimack River	Lat 42°32'32", long 71°44'47", Worcester County, at Hamilton St., North Leominster, Mass.	-	1973	1- 8-74a	170
North Nashua River	do	Lat 42°28'23", long 71°40'59", Worcester County, at North Main St., 1.5 mi north of Lancaster, Mass.	-	1973	1- 8-74a	240
South Branch Nashua River	Nashua River	Lat 42°26'18", long 71°40'54", Worcester County, at Mill St., 0.5 mi southeast of South Lancaster, Mass.	-	1973	1- 9-74a	40
Nashua River	Merrimack River	Lat 42°34'42", long 71°36'35", Middlesex County, at State Highway 2A, 1.5 mi northwest of Ayer, Mass.	-	1973	1- 9-74	290
Beaver Brook	do	Lat 42°39'36", long 71°19'10", Middlesex County, 10 ft above Martin St. bridge, at north limits of Lowell, Mass.	-	-	7- 9-74 7-11-74 8-20-74 8-22-74	27 25 5.7 *5.0
Trout Brook	Richardson Brook	Lat 42°41'08", long 71°16'10", Middlesex County, at culvert on Wheeler Rd., 2.0 mi northeast of Dracut, Mass.	.71	-	10-26-73 7-25-74	*b<.05 *0
Bartlett Brook	Merrimack River	Lat 42°42'08", long 71°15'16", Middlesex County, at culvert on Salem Rd., 3.3 mi northeast of Dracut, Mass.	1.71	-	10-26-73 7-25-74	*b<.05 *0
Spicket River	do	Lat 42°44'35", long 71°12'32", Essex County, at bridge on Hampshire Rd., 1.5 mi northwest of Methuen, Mass.	62.1	1973	10-26-73 8-22-74a	*8.1 *c12
Harris Brook	Spicket River	Lat 42°44'25", long 71°12'51", Essex County, at culvert on Cross St., 1.6 mi northwest of Methuen, Mass.	4.88	-	10-26-73 7-24-74	*.31 *b.10
Spicket River	Merrimack River	Lat 42°43'26", long 71°11'08", Essex County, at dam just above most northerly bridge on Broadway (State Highway 28) at Methuen, Mass., 3.2 mi above mouth.	73.8	1968	7-24-74 8- 2-74 8-20-74 8-22-74	*19 *13 13 *13
Shawsheen River	do	Lat 42°29'10", long 71°15'44", Middlesex County, at bridge on Great Rd., 1.0 mi east of Bedford, Mass.	7.14	-	7-26-74	*2.3
Elm Brook tributary	Elm Brook	Lat 42°28'06", long 71°19'05", Middlesex County, at culvert on Virginia Rd., 1.7 mi east of Concord, Mass.	-	-	7-31-74	*0
Shawsheen River	Merrimack River	Lat 42°29'35", long 71°15'25", Middlesex County, at culvert on Page Rd., 1 mi east of Bedford, Mass.	12.5	1973	3-14-74 6-25-74 8-29-74	*15 9.7 4.8
Shawsheen River	do	Lat 42°31'04", long 71°14'44", Middlesex County, at twin culvert on Middlesex Turnpike, 2.5 mi northeast of Bedford, Mass.	26.0	1973	3-14-74 6-25-74 8-28-74 8-29-74	*27 14 *b1.0 6.6
McKee Brook	Shawsheen River	Lat 42°31'29", long 71°14'47", Middlesex County, at culvert on Albion Rd., 2.7 mi southeast of Billerica, Mass.	-	-	7-31-74	*0
Shawsheen River	Merrimack River	Lat 42°32'04", long 71°14'03", Middlesex County, at bridge on Boston Rd. (State Highway 3A), 2.5 mi southeast of Billerica, Mass.	29.9	-	3-14-74 6-25-74 8-28-74 8-29-74	*31 15 *2.1 8.3

a Records of chemical analyses for this date in Part 2 of this report.
b Field estimate.
c Estimate based on a downstream measurement.

Discharge measurements made at miscellaneous sites during water year 1974--Continued

Stream	Tributary to	Location	Drainage area (mi²)	Measured previously (water years)	Measurements	
					Date	Discharge (ft³/s)
		Merrimack River basin--Continued				
Shawsheen River	Merrimack River	Lat 42°33'00", long 71°13'23", Middlesex County, at the town of Burlington's Water Department intake structure behind Shawsheen Valley Technical High School, 2.5 mi east of Billerica, Mass.	-	-	8-28-74	*2.8
Shawsheen River tributary No. 4	Shawsheen River	Lat 42°34'34", long 71°12'21", Middlesex County, at culvert on Brown St., 2.7 mi southeast of Tewksbury, Mass.	-	-	8- 1-74	*0
Shawsheen River	Merrimack River	Lat 42°35'16", long 71°12'04", Middlesex County, at bridge on Main St. (State Highway 38), 2.4 mi southeast of Tewksbury, Mass.	44.6	-	3-15-74 6-26-74 8-28-74	*54 34 *7.2
Meadow Brook (head of Strong Water Brook)	Shawsheen River	Lat 42°37'56", long 71°13'15", Middlesex County, at culvert on Kendall St., 1.5 mi north of Tewksbury, Mass.	1.52	1973	7-25-74 8- 1-74	*b.15 *0
Shawsheen River	Merrimack River	Lat 42°35'59", long 71°11'36", Middlesex County, at twin culverts on Mill St., 2.2 mi southeast of Tewksbury, Mass.	54.4	-	3-15-74 6-26-74 8-28-74	*61 37 *6.1
Shawsheen River tributary	Shawsheen River	Lat 42°35'50", long 71°11'05", Middlesex County, at culvert on South St., 2.7 mi southeast of Tewksbury, Mass.	-	-	8- 1-74	*0
Shawsheen River tributary	do	Lat 42°36'04", long 71°11'19", Middlesex County, at culvert on old railroad bed, 0.2 mi east of Shawsheen St., 2.4 mi southeast of Tewksbury, Mass.	3.00	1973	7-25-74	*b<.10
Shawsheen River tributary No. 2	do	Lat 42°36'52", long 71°11'23", Middlesex County, at culvert on Shawsheen St., 2.2 mi east of Tewksbury, Mass.	-	1973	7-25-74 8- 1-74	*b.15 *b<.1
Shawsheen River	Merrimack River	Lat 42°36'53", long 71°10'32", Middlesex County, at bridge on U.S. Interstate Highway 93, 3.0 mi east of Tewksbury, Mass.	59.6	-	3-11-74 3-14-74 6-26-74 8-28-74	86 *70 44 *7.6
Shawsheen River tributary No. 3	Shawsheen River	Lat 42°37'32", long 71°08'27", Essex County, at culvert on Ballardvale Rd., 1 mi east of Ballardvale, Mass.	-	1973	7-25-74	*0
Shawsheen River	Merrimack River	Lat 42°37'41", long 71°09'27", Essex County, 800 ft below bridge on Andover St., 2.1 mi southwest of Andover, Mass.	64.2	-	3-14-74 6-26-74	*76 46
Shawsheen River tributary No. 5	Shawsheen River	Lat 42°37'31", long 71°09'58", Essex County, at culvert on Chester St., 2.5 mi southwest of Andover, Mass.	-	-	8- 1-74	*0
Shawsheen River tributary No. 6	do	Lat 42°38'25", long 71°08'45", Essex County, at culvert on Abbot St., 1.2 mi south of Andover, Mass.	-	-	8- 1-74	*0
Bakers Meadow Reservoir Outlet	do	Lat 42°38'48", long 71°09'21", Essex County, at culvert on Argilla Rd., 1 mi southwest of Andover, Mass.	.80	1973	7-25-74 8- 1-74	*b.15 *b<.1
Shawsheen River	Merrimack River	Lat 42°38'50", long 71°09'05", Essex County, at bridge on Horn Bridge Rd., 0.8 mi southwest of Andover, Mass.	67.7	1973	3-12-74 6-26-74 6-27-74 8-26-74 8-27-74 8-28-74	99 52 54 11 *8.8 *9.1
Shawsheen River tributary No. 7	Shawsheen River	Lat 42°39'14", long 71°09'06", Essex County, at culvert on Red Spring Rd., 0.5 mi west of Andover, Mass.	-	-	8- 1-74	*0
Rogers Brook tributary	Rogers Brook	Lat 42°39'30", long 71°07'35", Essex County, at culvert on Stevens St., 0.8 mi east of Andover, Mass.	-	-	8- 1-74	*0
Shawsheen River	Merrimack River	Lat 42°39'26", long 71°08'50", Essex County, at bridge on Essex St., 0.3 mi west of Andover, Mass.	69.5	-	6-27-74 8-27-74	51 *9.1

b Field estimate.

Discharge measurements made at miscellaneous sites during water year 1974--Continued

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements	
					Date	Discharge (ft^3/s)
		Merrimack River basin--Continued				
Shawsheen River	Merrimack River	Lat 42°39'53", long 71°08'47", Essex County, at bridge on North Main St. (State Highway 28), 0.6 mi northwest of Andover, Mass.	69.8	-	3-12-74 6-27-74 8-27-74	97 47 *9.2
Hussey Brook	Shawsheen River	Lat 42°40'01", long 71°10'23", Essex County, at culvert on Chandler Rd., 1.8 mi northwest of Andover, Mass.	-	-	8- 1-74	*0
Shawsheen River	Merrimack River	Lat 42°40'48", long 71°08'45", Essex County, 100 ft north of Andover-Lawrence town line, 1.4 mi southwest of North Andover, Mass.	74.1	1973	3-11-74 3-12-74 6-27-74	107 104 56
Shawsheen River	do	Lat 42°41'04", long 71°08'31", Essex County, 500 ft above Salem Turnpike (State Highway 114), 2.0 mi southeast of Lawrence, Mass.	-	-	8-27-74	*9.7
Shawsheen River tributary No. 8	Shawsheen River	Lat 42°40'49", long 71°08'02", Essex County, at culvert on Waverley Rd., 1.2 mi south of North Andover, Mass.	-	-	8- 1-74	*0
Shawsheen River	Merrimack River	Lat 42°42'09", long 71°08'34", Essex County, at Boston and Maine Railroad bridge 700 ft above Merrimack St., 1.0 mi southeast of Lawrence, Mass.	76.8	-	6-27-74 7- 9-74 7-11-74 7-24-74 8- 8-74 8-20-74 8-22-74 8-27-74	54 74 49 *21 *14 7.5 *7.3 *11
Bare Meadow Brook	do	Lat 42°44'38", long 71°08'59", Essex County, 50 ft above unnamed tributary entering from the north, 450 ft below Oak St., and 2.4 mi northeast of Methuen, Mass.	-	-	11-14-73 7-23-74	*.18 *0
Bare Meadow Brook tributary	Bare Meadow Brook	Lat 42°44'39", long 71°08'58", Essex County, 25 ft above culvert on Pleasant Valley St. (State Highway 113), 2.4 mi northeast of Methuen, Mass.	1.04	-	11-14-73 7-23-74	*.21 *b.02
Hawkes Brook	do	Lat 42°46'35", long 71°10'19", Essex County, at culvert on North St., 3.5 mi north of Methuen, Mass.	1.40	-	11-14-73 7-23-74	*.39 *0
Hawkes Brook	do	Lat 42°45'06", long 71°08'17", Essex County, at high-tension wires 0.2 mi above mouth, 3.2 mi northeast of Methuen, Mass.	4.35	-	11-15-73 7-23-73	*1.1 *0
West Meadow Brook	k	Lat 42°47'00", long 71°07'41", Essex County, at culvert on Forest St., 2.5 mi west of Haverhill, Mass.	1.43	-	11-15-73 7-23-74	*.21 *0
Little River	Merrimack River	Lat 42°49'06", long 71°06'50", Rockingham County, 100 ft above bridge on State Highway 121, 0.9 mi south of Westville, N.H.	21.1	-	8-21-74a	b.65
Fishin Brook	Little River	Lat 42°48'14", long 71°07' 7", Essex County, at culvert on Hilldale Ave., 2.7 mi northwest of Haverhill, Mass.	.96	-	11-15-73 7-23-74	*.29 *b.05
Little River	Merrimack River	Lat 42°48'19", long 71°06'33", Essex County, at culvert on Rosemont St., 2.5 mi northwest of Haverhill, Mass.	22.8	-	11-15-73 7-23-74 8- 2-74 8-23-74	*6.4 *2.0 *1.5 *b.65
Snows Brook	Little River	Lat 42°48'41", long 71°03'56", Rockingham County, at culvert on Newton Rd. (State Highway 108), 2.3 mi southeast of Plaistow, N.H.	.88	-	11-15-73 7-23-74	*b.05 *0
Snows Brook	do	Lat 42°47'46", long 71°05'42", Essex County, 500 ft below culvert on Greenleaf Ave., 1.6 mi northwest of Haverhill, Mass.	4.01	-	11-15-73 7-23-74 8- 2-74 8-22-74	*1.4 *.46 *.34 *b.15
Little River	Merrimack River	Lat 42°46'38", long 71°05'20", Essex County, at upstream side of Winter St. bridge, 0.6 mi west of Haverhill, Mass.	-	-	8-21-74a	b2.0

a Records of chemical analyses for this date in Part 2 of this report.
b Field estimate.

Discharge measurements made at miscellaneous sites during water year 1974--Continued

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements	
					Date	Discharge (ft^3/s)
		Merrimack River basin--Continued				
Little River	Merrimack River	Lat 42°46'35", long 71°05'16", Essex County, 500 ft below Winter St. bridge, 100 ft above point where Little River becomes enclosed under Haverhill, and 0.5 mi west of Haverhill, Mass.	-	-	7-10-74 8-23-74	6.4 2.3
Johnsons Pond tributary	Johnsons Pond	Lat 42°43'57", long 71°03'36", Essex County, 200 ft above culvert on Center St., at southeast boundary of Haverhill, Mass.	-	-	7-23-74	*.08
Cobbler Brook	Merrimack River	Lat 42°50'03", long 71°00'05", Essex County, 25 ft above culvert on East Main St. (State Highway 110), at Merrimack, Mass.	2.46	-	7-22-74 8-21-74	*b.15 *0
Sawmill Brook (head of Indian River)	do	Lat 42°47'53", long 70°58'45", Essex County, at most northerly culvert on Stewart St., 0.5 mi southwest of West Newbury, Mass.	.53	-	7-22-74	*0
Indian River	do	Lat 42°48'25", long 70°58'04", Essex County, at culvert on Main St. (State Highway 113), 1.2 mi east of West Newbury, Mass.	1.44	-	7-22-74	*0
Upper Artichoke Reservoir tributary	Upper Artichoke Reservoir	Lat 42°47'33", long 70°56'45", Essex County, at culvert on Garden St., 2.2 mi east of West Newbury, Mass.	1.36	-	7-22-74	*0
Upper Artichoke Reservoir tributary No. 2	do	Lat 42°47'02", long 70°56'32", Essex County, at culvert on Indian Hill St., 2.6 mi southeast of West Newbury, Mass.	.92	-	7-22-74	*0
Powwow River	Merrimack River	Lat 42°51'42", long 70°59'02", Essex County, at bridge on Newton Rd., 2.6 mi west of Amesbury, Mass.	-	1973	8-20-74a	b1.0
Powwow River	do	Lat 42°51'22", long 70°55'45", Essex County, 400 ft above mouth of Back River and 800 ft below bridge on Main St., Amesbury, Mass.	-	-	7-10-74 7-11-74 8-21-74	1.8 1.4 b2.2
Back River	Powwow River	Lat 42°52'15", long 70°55'09", Essex County, at culvert on Fern Ave., 15 ft below unnamed tributary, and 1.2 mi northeast of Amesbury, Mass.	5.14	-	7-22-74 8- 2-74 8-23-74	*.42 *.35 *b.20
Smallpox Brook	Blackwater River	Lat 42°51'00", long 70°51'59", Essex County, at culvert on Lafayette Rd., 0.7 mi north of Salisbury, Mass.	1.82	-	7-22-74 8- 2-74 8-23-74	*.42 *b.20 *b.20
		Coastal River basins				
Walker Creek tributary	Walker Creek	Lat 42°37'28", long 70°44'12", Essex County, at culvert on Sumner St., 3.8 mi west of Gloucester, Mass.	-	-	8-15-74	*0
Essex Bay tributary	Essex Bay (Atlantic Ocean)	Lat 42°38'30", long 70°43'35", Essex County, at culvert on Concord St., 3.7 mi northwest of Gloucester, Mass.	-	-	8-15-74	*0
Jones River	Annisquam River	Lat 42°38'01", long 70°42'32", Essex County, at culvert on Concord St., 2.6 mi northwest of Gloucester, Mass.	-	-	8-15-74	*0
Hill Brook	Sandy Bay (Atlantic Ocean)	Lat 42°39'21", long 70°37'32", Essex County, at culvert on Granite St. (State Highway 127), 0.3 mi west of Rockport, Mass.	-	-	8-15-74	*0
Freshwater Cove tributary	Gloucester Harbor (Atlantic Ocean)	Lat 42°35'26", long 70°41'17", Essex County, at culvert on approach road to Dolliver Neck, 2.0 mi southwest of Gloucester, Mass.	-	-	8-15-74	*0
Plum Cove tributary	Massachusetts Bay (Atlantic Ocean)	Lat 42°33'28", long 70°49'44", Essex County, at culvert on Hale St. (State Highway 127), 2.6 mi east of Beverly, Mass.	-	-	8-14-74	*0
Dolliber Cove tributary	do	Lat 42°30'53", long 70°50'53", Essex County, at culvert on Beacon St., 0.8 mi north of Marblehead, Mass.	-	-	8-14-74	*0
Porter River tributary	Porter River	Lat 42°34'39", long 70°56'17", Essex County, at culvert on Locust St. (State Highway 35), 0.6 mi north of Danvers, Mass.	-	-	8-14-74	*0

a Records of chemical analyses for this date in Part 2 of this report.
b Field estimate.

Discharge measurements made at miscellaneous sites during water year 1974--Continued

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements	
					Date	Discharge (ft^3/s)
		Coastal River basins--Continued				
Forest River tributary	Forest River	Lat 42°29'39", long 70°55'15", Essex County, at culvert on Swampscott Rd., 2.2 mi southwest of Salem, Mass.	-	-	8-14-74	*0
		Saugus River basin				
Beaverdam Brook	Saugus River	Lat 42°32'45", long 71°02'27", Essex County, at culvert on Main St., 0.6 mi northeast of Lynnfield Center, Mass.	-	-	8-14-74	*0
Saugus River tributary	do	Lat 42°32'21", long 71°02'35", Essex County, at culvert on Forest Hill Ave., 0.3 mi east of Lynnfield Center, Mass.	-	-	8-14-74	*0
Mill River tributary	Mill River	Lat 42°30'18", long 71°03'37", Middlesex County, at culvert on Preston St., 0.6 mi east of Wakefield, Mass.	-	-	8-14-74	*0
Cedar Pond tributary	Cedar Pond	Lat 42°30'27", long 70°58'54", Essex County, at culvert on Tuscan Rd., 3.3 mi northwest of Lynn, Mass.	-	-	8-14-74	*0
Breeds Pond tributary	Breeds Pond	Lat 42°28'52", long 70°59'05", Essex County, at culvert on Waycross Rd., 2.0 mi northwest of Lynn, Mass.	-	-	8-14-74	*0
		Mystic River basin				
Aberjona River (head of Mystic River)	Boston Harbor (Atlantic Ocean)	Lat 42°30'59", long 71°08'08", Middlesex County, about 100 ft below Commerce Way, 2.7 mi north of Woburn, Mass.	-	1973	10-17-73 3-26-74	*0.45 6.2
Willow Brook	Halls Brook	Lat 42°30'31", long 71°09'49", Middlesex County, at culvert on Nichols St., 2.1 mi north of Woburn, Mass.	-	-	7-31-74	*0
Aberjona River	Boston Harbor	Lat 42°30'06", long 71°08'09", Middlesex County, 75 ft below outlet of culvert on State Highway 128, 1.8 mi northeast of Woburn, Mass.	5.56	1973	10-17-73 3-26-74	*2.5 16
Aberjona River	do	Lat 42°29'29", long 71°07'46", Middlesex County, at bridge on Salem St., 1.5 mi northeast of Woburn, Mass.	6.93	1973	10-17-73 3-26-74	*2.7 18
Aberjona River	do	Lat 42°29'15", long 71°07'25", Middlesex County, 800 ft above bridge on Washington Circle, 1.6 mi east of Woburn, Mass.	8.53	1967d	10-16-73 10-17-73 3-26-74	*2.6 *2.8 23
Aberjona River	do	Lat 42°28'10", long 71°07'32", Middlesex County, at bridge on Washington St., 1.3 mi north of Winchester, Mass.	11.9e	1967, 1973	10-15-73 10-16-73 3-26-74 3-27-74	*2.7 *2.9 27 22
Little Brook	Cummings Brook	Lat 42°28'48", long 71°11'01", Middlesex County, at culvert on Bedford Rd., 1.6 mi west of Woburn, Mass.	-	-	7-31-74	*0
Horn Pond Brook	Aberjona River	Lat 42°27'38", long 71°08'48", Middlesex County, at culvert on Canal St., 0.7 mi northwest of Winchester, Mass.	-	1973	3-27-74	3.2
Horn Pond Brook	do	Lat 42°27'20", long 71°08'19", Middlesex County, at weir at outlet of Wedge Pond, 0.2 mi north of Winchester, Mass.	-	1973	3-25-74 3-27-74	10 5.7
Mill Brook	Lower Mystic Lake	Lat 42°25'40", long 71°12'20", Middlesex County, at culvert on Massachusetts Ave., 1.7 mi southeast of Lexington, Mass.	-	-	7-31-74	*0
Mill Brook	do	Lat 42°25'20", long 71°08'59", Middlesex County, 1,200 ft above mouth, 0.4 mi northeast of Arlington, Mass.	-	1973	10- 2-73 10-27-73 7-29-74 8- 9-74 9-13-74	1.6 1.2 .83 .64 3.4
Alewife Brook	Mystic River	Lat 42°24'25", long 71°08'04", Middlesex County, at culvert on Broadway, 1.2 mi southeast of Arlington, Mass.	-	1973	3-28-74	9.0

d Measured at bridge on Washington Circle.
e Does not include 0.62 mi^2 of Winchester's North Reservoir.

Discharge measurements made at miscellaneous sites during water year 1974--Continued

Stream	Tributary to	Location	Drainage area (mi²)	Measured previously (water years)	Measurements	
					Date	Discharge (ft³/s)
		Mystic River basin--Continued				
Malden River	Mystic River	Lat 42°25'31", long 71°04'24", Middlesex County, at culvert on Centre St., 0.3 mi west of Malden, Mass.	-	1973	7-29-74 8- 9-74	1.6 2.0
Mystic River	Boston Harbor	Lat 42°25'02", long 71°07'52", Middlesex County, at Boston Ave. bridge, 1.1 mi west of Medford, Mass.	-	-	3-28-74	121
		Pawcatuck River basin				
Pasquiset Brook	Pawcatuck River	Lat 41°26'38", long 71°37'39", Washington County, at bridge on State Highway 2, 0.2 mi south of Kenyon, R.I.	6.32	1966-67	9-19-74a	1.7
Beaver River	do	Lat 41°31'31", long 71°38'23", Washington County, at bridge on Hillsdale Rd., 0.3 mi north of Hillsdale, and 3.3 mi east of Wyoming, R.I.	5.53	1966-67	9-18-74a	f2.5
Beaver River	do	Lat 41°30'42", long 71°38'31", Washington County, at Punchbowl Trail, 0.7 mi south of Hillsdale, and 3.2 mi east of Wyoming, R.I.	-	-	9-18-74a	f2.6
Beaver River	do	Lat 41°29'33", long 71°37'43", Washington County, at Beaver River Bridge on State Highway 138 in Richmond, 1.2 mi southwest of Usquepaug, R.I., 3.3 mi north of Kenyon, and 3.6 mi upstream from mouth.	8.87	-	9-18-74a	f3.9
Beaver River	do	Lat 41°28'45", long 71°37'26", Washington County, at culvert on gravel road, 0.2 mi east of Beaver River Rd. in Richmond, 1.8 mi southwest of Usquepaug, R.I.	-	-	9-18-74a	f4.4
Beaver River	do	Lat 41°27'51", long 71°37'42", Washington County, at bridge on Shannock Hill Rd., 1.2 mi northeast of Shannock, and 1.2 mi north of Kenyon, R.I.	11.2	1966-67	9-19-74a	f7.7
Beaver River	do	Lat 41°27'09", long 71°37'42", Washington County, 0.3 mi above mouth and 0.4 mi north of Kenyon, R.I.	11.7	-	9-19-74a	f5.9
		Connecticut River basin				
Dry Brook	Connecticut River	Lat 42°38'31", long 72°29'53", Franklin County, at culvert on Main Rd., 0.1 mi northeast of Gill, Mass.	7.63	1971-73	10- 2-73	2.0
Fourmile Brook	do	Lat 42°37'13", long 72°28'15", Franklin County, at culvert on State Highway 63, at south limits of Northfield, Mass.	-	1971-72	10- 2-73	.36
Couch Brook	Fall River	Lat 42°42'15", long 72°33'54", Franklin County, at culvert on State Highway 5, 1.2 mi south of North Bernardston, Mass.	-	1971-72	10- 2-73	.23
Fall River	Connecticut River	Lat 42°41'15", long 72°32'43", Franklin County, at bridge on Burke Falls Rd., 1.0 mi northeast of Bernardston, Mass.	25.6	1971-73	10- 2-73	2.2
Red Brook	Sawmill River	Lat 42°30'15", long 72°26'52", Franklin County, at culvert on Lake View Rd., 2.3 mi east of North Leverett, Mass.	1.97	1971-73	10- 2-73	.15
Long Plain Brook	Connecticut River	Lat 42°27'28", long 72°31'23", Franklin County, at culvert on Central Vermont Railroad, 200 ft west of State Highway 63, 1.2 mi northwest of Leverett, Mass.	2.23	1971-73	10- 2-73	.10
Roaring Brook	do	Lat 42°26'18", long 72°28'59", Franklin County, at culvert on Cushman Rd., at East Leverett, Mass.	3.09	1971-72	10- 2-73	1.7
Hop Brook	Fort River	Lat 42°19'30", long 72°25'46", Hampshire County, 200 ft above diversion, 0.1 mi above State Highway 9, 1.1 mi east of Dwight, Mass., and 3.5 mi northwest of Belchertown, Mass.	-	1972	10- 1-73	.22

a Records of chemical analyses for this date in Part 2 of this report.
f Seepage measurement.

Discharge measurements made at miscellaneous sites during water year 1974--Continued

Stream	Tributary to	Location	Drainage area (mi²)	Measured previously (water years)	Measurements	
					Date	Discharge (ft³/s)
		Connecticut River basin--Continued				
Scarboro Brook	Hop Brook	Lat 42°20'22", long 72°26'40", Hampshire County, at culvert on Gulf Road, 0.8 mi above State Highway 9, at Dwight, Mass., 4.7 mi northwest of Belchertown.	-	1972	10- 1-73	0.50
Hop Brook	Fort River	Lat 42°20'31", long 72°29'38", Hampshire County, at culvert on Station Rd., 0.5 mi east of South Amherst, Mass.	14.7	1971-73	10- 1-73	4.7
Muddy Brook	Stony Brook	Lat 42°13'51", long 72°30'53", Hampshire County, at twin culverts on Truby St., 1.8 mi south of Granby, Mass.	-	1971-72	10- 1-73	.15
Sevenmile River (head of Quaboag River)	Ware River	Lat 42°13'38", long 72°02'14", Worcester County, at bridge on Cove St. 300 ft above New York Central railroad bridge, 0.5 mi east of East Brookfield, Mass.	-	-	10- 2-74	119
East Brookfield River	Quaboag Pond	Lat 42°13'29", long 72°02'59", Worcester County, approximately 700 ft below State Highway 9, 75 ft above a spur-line New York Central railroad bridge, and 0.2 mi southwest of East Brookfield, Mass.	-	-	10- 2-74	111

PART 2. WATER QUALITY RECORDS

MERRIMACK RIVER BASIN

01090100 MERRIMACK RIVER AT HOOKSETT, N.H.

LOCATION.--Lat 43°05'45", long 71°27'49", Merrimack County, on upstream side of railroad bridge at Hooksett.

PERIOD OF RECORD.--Chemical analyses: May to September 1974.

REMARKS.--Discharge computed on basis of records for gaging station at Goffs Falls and for Piscataquog River near Goffstown.

CHEMICAL ANALYSES, MAY TO SEPTEMBER 1974

DATE	TIME	MEAN DAILY DIS- CHARGE (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)	IMME- DIATE COLI- FORM (COL. PER 100 ML)	FECAL COLI- FORM (COL. PER 100 ML)	CHLORO- PHYLL A (UG/L)	CHLORO- PHYLL B (UG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITRO- GEN (N) (MG/L)
MAY												
29...	1400	10000	44	6.9	10.0	11.2	4500	470	.8	12	.10	.02
JUNE												
11...	1245	2700	57	6.9	22.2	8.9	--	--	.0	.7	.14	.01
27...	1200	2000	62	7.0	21.0	8.0	--	820	1.1	3.3	.19	.08
JULY												
17...	1100	1300	62	6.9	26.5	7.0	1400	360	--	--	.15	.14
31...	1030	1200	74	6.8	25.0	7.2	--	--	1.5	1.7	.18	.24
AUG.												
14...	1145	900	77	7.6	26.5	8.9	1900	50	15	36	.02	.17
29...	1500	1200	76	6.8	24.5	7.2	15000	270	7.5	2.5	.13	.18
SEP.												
16...	1330	1700	72	6.8	21.0	7.6	960	--	6.0	3.0	.12	.27
30...	1200	3200	66	6.8	16.5	8.8	15400	--	--	--	.13	.21

DATE	TOTAL ORGANIC NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	SUS- PENDED SOLIDS (MG/L)	TOTAL RESI- DUE (MG/L)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	CHEM- ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	OIL AND GREASE (MG/L)	TOTAL CHRO- MIUM (CR) (UG/L)
MAY											
29...	.24	.36	.26	.02	6	43	10	4	14	0	20
JUNE											
11...	.21	.36	.22	.02	1	38	10	2	13	0	<10
27...	.26	.53	.34	.03	6	50	1	1	16	0	20
JULY											
17...	.22	.51	.36	.04	3	47	3	2	13	0	10
31...	.65	1.1	.89	.04	7	60	1	1	14	0	0
AUG.											
14...	.25	.44	.42	.04	3	67	2	2	17	1	10
29...	.14	.45	.32	.04	1	60	1	1	8	0	0
SEP.											
16...	.14	.53	.41	.04	2	56	2	2	12	1	10
30...	.17	.51	.38	.04	8	50	3	3	13	0	20

01090100 MERRIMACK RIVER AT HOOKSETT, N.H.--Continued

CHEMICAL ANALYSES, MAY TO SEPTEMBER 1974.--Continued

DATE	TOTAL ALUMINUM (AL) (UG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL BARIUM (BA) (UG/L)	TOTAL BERYLLIUM (BE) (UG/L)	TOTAL BISMUTH (BI) (UG/L)	TOTAL BORON (B) (UG/L)
SEP. 30...	150	400	75	8	0	7	7.6	11	12	<1	<4	10

DATE	TOTAL CADMIUM (CD) (UG/L)	TOTAL COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MOLYBDENUM (MO) (UG/L)	TOTAL NICKEL (NI) (UG/L)	TOTAL SILVER (AG) (UG/L)	TOTAL STRONTIUM (SR) (UG/L)	TOTAL VANADIUM (V) (UG/L)	TOTAL ZINC (ZN) (UG/L)	TOTAL TIN (SN) (UG/L)	TOTAL GALLIUM (GA) (UG/L)
SEP. 30...	<1	0	3	3	0	1	0	34	.6	10	0	0

DATE	TOTAL GERMANIUM (GE) (UG/L)	TOTAL LITHIUM (LI) (UG/L)	TOTAL TITANIUM (TI) (UG/L)	TOTAL ZIRCONIUM (ZR) (UG/L)	TOTAL ALUMINUM IN BOTTOM DEPOSITS (UG/G)	TOTAL IRON IN BOTTOM DEPOSITS (UG/G)	TOTAL MANGANESE IN BOTTOM DEPOSITS (UG/G)	TOTAL BARIUM IN BOTTOM DEPOSITS (UG/G)	TOTAL BERYLLIUM IN BOTTOM DEPOSITS (UG/G)	TOTAL BORON IN BOTTOM DEPOSITS (UG/G)	TOTAL CADMIUM IN BOTTOM DEPOSITS (UG/G)
SEP. 30...	0	1	5	0	1300	1500	100	9	0	5	0

DATE	TOTAL CHROMIUM IN BOTTOM DEPOSITS (UG/G)	TOTAL COBALT IN BOTTOM DEPOSITS (UG/G)	TOTAL COPPER IN BOTTOM DEPOSITS (UG/G)	TOTAL LEAD IN BOTTOM DEPOSITS (UG/G)	TOTAL MOLYBDENUM IN BOTTOM DEPOSITS (UG/G)	TOTAL NICKEL IN BOTTOM DEPOSITS (UG/G)	TOTAL SILVER IN BOTTOM DEPOSITS (UG/G)	TOTAL STRONTIUM IN BOTTOM DEPOSITS (UG/G)	TOTAL VANADIUM IN BOTTOM DEPOSITS (UG/G)	TOTAL ZINC IN BOTTOM DEPOSITS (UG/G)	TOTAL TITANIUM IN BOTTOM DEPOSITS (UG/G)
SEP. 30...	5	1	4	>30	0	6	0	4	2.0	18	66

01094700 NORTH NASHUA RIVER NEAR LANCASTER, MASS.
(Formerly published as North Nashua River at North Village)

LOCATION (revised).--Lat 42°28'47", long 71°41'04", Worcester County, multiple-parameter monitor on right bank 600 ft (200 m) downstream from bridge at Ponakin Mill, 0.6 mi (1.0 km) upstream from Ponakin Brook, 1.7 mi (2.7 km) north of Lancaster, and 5 mi (8 km) downstream from gaging station near Leominster.

DRAINAGE AREA.--128 mi^2 or 332 km^2 (revised), includes 2.1 mi^2 (5.4 km^2) above outlet of Ashby (Fitchburg) Reservoir.

PERIOD OF RECORD.--Chemical analyses: October 1968 to current year (no winter records in water years 1973, 1974).
Water temperatures: October 1968 to current year (no winter records in water years 1973, 1974).

EXTREMES.--Current year:
Dissolved oxygen: Maximum not determined; minimum, 0.3 mg/l Aug. 17, 18.
Water temperatures: Maximum, 26.5°C July 10, Aug. 4; minimum, probably freezing point several days during winter period.

Period of record:
Specific conductance: Maximum, 857 micromhos Jan. 29, 1970; minimum, 70 micromhos Apr. 23, 1969.
pH: Maximum, 8.4 May 4, 1974; minimum, 4.8 Aug. 28, 1972.
Dissolved oxygen: Maximum, 14.8 mg/l Mar. 6, 1971; minimum, 0.0 mg/l July 26, 30, 1970, June 22, 1971.
Water temperatures: Maximum, 30.0°C July 29, 1970; minimum, freezing point several days during winter periods.

REMARKS.--Figures of daily discharge, computed on basis of records for gaging station near Leominster, are available at district office.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C) , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	268	236	253	---	---	---	195	132	153
2	265	240	252	---	---	---	167	138	146
3	282	264	274	---	---	---	171	159	164
4	270	246	256	---	---	---	188	171	180
5	261	246	255	---	---	---	---	---	---
6	266	252	258	---	---	---	---	---	---
7	279	249	267	---	---	---	188	174	179
8	289	251	274	---	---	---	184	163	170
9	303	235	264	---	---	---	194	172	181
10	262	241	254	---	---	---	197	115	162
11	326	249	279	---	---	---	147	117	125
12	326	278	310	---	---	---	141	131	134
13	297	278	289	---	---	---	130	81	102
14	272	214	238	---	---	---	139	113	121
15	278	264	272	---	---	---	168	131	148
16	294	243	267	---	---	---	184	143	167
17	283	246	273	---	---	---	188	145	158
18	312	277	292	---	---	---	173	148	157
19	320	280	305	---	---	---	168	157	161
20	303	281	292	---	---	---	173	163	169
21	295	285	292	---	---	---	191	174	184
22	293	277	287	---	---	---	191	178	186
23	289	238	262	---	---	---	201	172	184
24	260	239	250	---	---	---	178	156	162
25	270	247	260	---	---	---	---	---	---
26	278	260	268	---	---	---	156	123	132
27	295	268	282	---	---	---	141	133	136
28	312	274	302	---	---	---	157	140	145
29	313	274	295	164	152	158	175	160	168
30	---	---	---	188	168	178	178	154	162
31	---	---	---	---	---	---	183	158	168
MONTH	326	214	273	---	---	---	201	81	157

01094700 NORTH NASHUA RIVER NEAR LANCASTER, MASS.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974.--Continued

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	191	117	161	---	---	---	275	237	256	275	163	235
2	144	126	131	---	---	---	280	242	262	293	262	271
3	170	131	142	---	---	---	288	246	267	295	170	253
4	170	157	161	---	---	---	312	241	277	280	106	133
5	188	167	174	181	173	177	280	243	260	---	---	---
6	190	172	183	166	138	148	278	221	246	---	---	---
7	230	191	206	167	157	164	279	225	264	---	---	---
8	209	172	196	175	129	149	313	266	288	---	---	---
9	---	---	---	192	145	171	315	269	291	---	---	---
10	---	---	---	215	192	204	329	274	303	---	---	---
11	---	---	---	228	211	216	321	280	299	---	---	---
12	---	---	---	248	223	231	323	277	295	---	---	---
13	---	---	---	251	223	232	294	257	280	---	---	---
14	---	---	---	246	228	236	310	255	284	---	---	---
15	---	---	---	248	219	231	313	266	292	---	---	---
16	---	---	---	256	216	224	329	260	295	---	---	---
17	---	---	---	266	201	223	301	261	281	---	---	---
18	156	142	149	250	214	242	301	259	282	---	---	---
19	179	162	170	279	242	257	295	256	277	---	---	---
20	203	178	190	286	162	203	310	266	285	---	---	---
21	216	189	201	251	196	214	315	273	295	---	---	---
22	176	145	155	240	209	226	315	264	287	---	---	---
23	176	158	166	224	204	210	312	261	283	---	---	---
24	191	121	172	229	208	217	325	260	289	---	---	---
25	199	167	186	254	212	226	305	237	258	---	---	---
26	---	---	---	253	213	237	288	248	274	---	---	---
27	---	---	---	274	225	247	357	275	329	---	---	---
28	---	---	---	270	228	248	315	207	270	---	---	---
29	---	---	---	257	224	237	291	201	234	---	---	---
30	---	---	---	261	224	238	278	107	185	---	---	---
31	---	---	---	267	237	253	235	105	182	---	---	---
MONTH	---	---	---	286	129	217	357	105	273	---	---	---
PERIOD	357	81	224									

PH (UNITS), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.9	6.2	6.5	---	---	---	7.4	6.8	7.0
2	6.8	6.3	6.5	---	---	---	7.4	6.5	7.0
3	6.5	6.3	6.4	---	---	---	8.3	7.2	7.8
4	6.5	6.2	6.3	---	---	---	8.4	7.3	7.8
5	6.6	6.1	6.3	---	---	---	7.6	6.9	7.3
6	6.6	6.2	6.4	---	---	---	7.1	6.7	6.9
7	6.8	6.3	6.5	---	---	---	6.9	6.6	6.8
8	6.8	6.3	6.5	---	---	---	6.9	6.5	6.7
9	6.7	6.3	6.5	---	---	---	6.8	6.5	6.7
10	6.8	6.3	6.6	---	---	---	6.7	6.5	6.6
11	7.0	6.4	6.7	---	---	---	---	---	---
12	7.0	6.4	6.6	---	---	---	---	---	---
13	7.0	6.5	6.6	---	---	---	6.4	6.1	6.2
14	6.8	6.3	6.5	---	---	---	6.3	6.0	6.2
15	6.7	6.3	6.5	---	---	---	6.2	6.0	6.1
16	6.7	6.4	6.5	---	---	---	6.1	6.0	6.0
17	7.0	6.4	6.7	---	---	---	6.1	5.9	6.0
18	7.0	6.5	6.8	---	---	---	6.1	6.0	6.1
19	7.5	6.6	7.0	---	---	---	6.1	6.0	6.1
20	6.8	6.6	6.7	---	---	---	7.1	6.1	6.5
21	6.9	6.4	6.6	---	---	---	7.0	6.8	6.9
22	6.9	6.3	6.4	---	---	---	6.9	6.4	6.7
23	6.9	6.2	6.4	---	---	---	6.5	6.3	6.4
24	6.7	6.3	6.4	---	---	---	6.6	6.3	6.4
25	6.6	6.3	6.4	---	---	---	---	---	---
26	6.6	6.4	6.5	---	---	---	6.7	6.3	6.5
27	7.0	6.3	6.6	---	---	---	6.7	6.5	6.6
28	6.9	6.2	6.5	---	---	---	6.8	6.5	6.7
29	6.7	6.5	6.5	7.0	6.8	6.9	6.6	6.4	6.6
30	---	---	---	7.0	6.8	6.9	6.8	6.3	6.6
31	---	---	---	---	---	---	6.7	6.6	6.7
MONTH	7.5	6.1	6.5	---	---	---	8.4	5.9	6.6

01094700 NORTH NASHUA RIVER NEAR LANCASTER, MASS.--Continued

PH (UNITS), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974.--Continued

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.8	6.3	6.6	---	---	---	6.9	6.3	6.7	7.0	6.5	6.7
2	6.6	6.4	6.5	---	---	---	6.8	6.4	6.5	6.6	6.5	6.6
3	6.9	6.5	6.6	---	---	---	6.7	6.4	6.5	6.9	6.4	6.6
4	6.5	6.3	6.4	---	---	---	6.7	6.4	6.5	6.5	6.0	6.2
5	6.4	6.2	6.3	7.0	6.1	6.5	6.8	6.4	6.6	---	---	---
6	6.3	6.1	6.2	6.8	5.6	6.3	6.8	6.4	6.6	---	---	---
7	6.5	6.2	6.3	6.8	6.2	6.5	6.7	6.4	6.6	---	---	---
8	6.8	6.2	6.4	6.5	6.1	6.4	6.8	6.4	6.6	---	---	---
9	---	---	---	6.7	6.1	6.4	6.6	6.4	6.5	---	---	---
10	---	---	---	6.7	6.4	6.5	6.7	6.5	6.6	---	---	---
11	---	---	---	6.8	6.5	6.6	6.7	6.5	6.6	---	---	---
12	---	---	---	6.9	6.6	6.7	6.7	6.4	6.6	---	---	---
13	---	---	---	7.0	6.6	6.8	6.8	6.4	6.6	---	---	---
14	---	---	---	7.0	6.6	6.8	6.8	6.3	6.5	---	---	---
15	---	---	---	7.0	6.7	6.8	6.7	6.3	6.5	---	---	---
16	---	---	---	7.0	6.6	6.8	6.8	6.4	6.5	---	---	---
17	---	---	---	6.9	6.4	6.6	6.7	6.4	6.5	---	---	---
18	6.8	6.4	6.6	7.0	6.5	6.7	6.7	6.4	6.6	---	---	---
19	6.6	6.2	6.5	6.9	6.6	6.7	6.7	6.4	6.6	---	---	---
20	6.7	6.4	6.5	6.6	6.4	6.5	6.8	6.5	6.7	---	---	---
21	6.7	6.3	6.5	6.9	6.4	6.6	7.1	6.5	6.9	---	---	---
22	6.6	5.6	6.3	7.1	6.5	6.8	6.9	6.4	6.6	---	---	---
23	6.7	6.3	6.5	7.0	6.6	6.8	6.6	6.4	6.5	---	---	---
24	8.3	6.6	7.1	7.0	6.6	6.8	6.8	6.4	6.6	---	---	---
25	7.0	6.6	6.8	7.1	6.7	6.9	7.0	6.5	6.7	---	---	---
26	---	---	---	7.1	6.6	6.8	7.4	6.6	6.9	---	---	---
27	---	---	---	6.8	6.4	6.6	7.2	6.9	7.1	---	---	---
28	---	---	---	6.7	6.4	6.5	6.9	6.6	6.8	---	---	---
29	---	---	---	6.6	6.3	6.4	6.6	6.5	6.6	---	---	---
30	---	---	---	6.7	6.3	6.4	6.8	6.6	6.7	---	---	---
31	---	---	---	6.7	6.3	6.4	7.2	6.6	6.9	---	---	---
MONTH	---	---	---	7.1	5.6	6.6	7.4	6.3	6.6	---	---	---
PERIOD	8.4	5.6	6.6									

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	7.7	4.6	6.0	---	---	---	6.8	4.6	5.8
2	7.6	4.7	5.8	---	---	---	6.9	4.8	5.8
3	5.6	2.3	4.4	---	---	---	7.8	4.6	6.8
4	6.7	3.7	4.7	---	---	---	7.7	5.8	6.9
5	5.2	3.5	4.1	---	---	---	8.0	6.8	7.1
6	7.2	4.0	5.2	---	---	---	8.5	6.2	7.4
7	7.7	4.3	5.7	---	---	---	7.5	6.1	6.4
8	7.9	4.7	6.0	---	---	---	8.1	6.1	7.1
9	7.9	4.4	5.9	---	---	---	7.6	5.8	6.7
10	6.9	4.6	5.6	---	---	---	7.7	5.3	6.4
11	7.9	4.3	5.9	---	---	---	8.6	5.5	7.2
12	7.5	3.9	5.4	---	---	---	---	---	---
13	7.8	4.1	5.5	---	---	---	---	---	---
14	7.2	4.0	5.2	---	---	---	---	---	---
15	7.4	4.1	5.5	---	---	---	7.1	5.2	6.4
16	7.4	4.2	5.7	---	---	---	7.1	5.1	6.1
17	7.7	4.8	6.0	---	---	---	6.2	4.5	5.4
18	7.7	4.9	6.0	---	---	---	6.7	4.4	5.6
19	8.4	4.9	6.3	---	---	---	6.9	4.5	5.6
20	6.5	4.9	5.5	---	---	---	7.5	5.1	6.2
21	8.4	5.1	6.4	---	---	---	7.0	4.9	5.8
22	8.5	5.1	6.5	---	---	---	6.1	4.1	5.2
23	8.6	5.0	6.5	---	---	---	5.1	3.7	4.5
24	8.6	5.0	6.4	---	---	---	6.0	4.5	5.4
25	6.2	4.4	5.1	---	---	---	---	---	---
26	7.4	4.3	5.5	---	---	---	---	---	---
27	8.6	4.7	6.3	---	---	---	---	---	---
28	9.1	5.0	6.8	---	---	---	---	---	---
29	6.9	5.6	6.3	8.0	5.8	7.0	---	---	---
30	---	---	---	6.8	5.4	6.0	---	---	---
31	---	---	---	---	---	---	---	---	---
MONTH	9.1	2.3	5.7	---	---	---	---	---	---

01094700 NORTH NASHUA RIVER NEAR LANCASTER, MASS.--Continued

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974.--Continued

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	5.7	1.8	3.4	9.3	2.1	6.3
2	---	---	---	---	---	---	5.8	1.9	3.6	3.7	2.2	2.7
3	---	---	---	---	---	---	4.9	1.7	3.0	3.7	2.4	2.9
4	---	---	---	---	---	---	5.0	1.6	2.9	---	---	---
5	---	---	---	---	---	---	4.9	1.5	2.9	---	---	---
6	---	---	---	---	---	---	4.9	1.0	2.8	---	---	---
7	---	---	---	---	---	---	5.5	1.4	3.5	---	---	---
8	---	---	---	---	---	---	5.6	2.2	3.7	---	---	---
9	---	---	---	---	---	---	4.6	1.7	2.9	---	---	---
10	---	---	---	---	---	---	5.5	2.2	3.5	---	---	---
11	---	---	---	---	---	---	5.4	2.4	3.5	---	---	---
12	---	---	---	---	---	---	5.1	2.2	3.3	---	---	---
13	---	---	---	---	---	---	5.3	1.7	3.1	---	---	---
14	---	---	---	---	---	---	5.1	1.5	2.9	---	---	---
15	---	---	---	---	---	---	5.1	1.4	2.7	---	---	---
16	---	---	---	---	---	---	3.1	0.6	1.7	---	---	---
17	---	---	---	---	---	---	1.5	0.3	0.9	---	---	---
18	5.7	4.2	5.1	---	---	---	4.8	0.3	2.3	---	---	---
19	4.9	3.8	4.2	6.7	3.6	5.6	4.5	1.1	2.3	---	---	---
20	5.1	4.0	4.3	5.2	1.5	3.4	4.3	1.1	2.3	---	---	---
21	4.8	3.8	4.4	7.2	2.7	4.6	5.8	1.5	3.2	---	---	---
22	5.3	3.5	4.0	7.7	2.4	4.7	5.1	1.5	2.8	---	---	---
23	4.2	3.9	4.1	7.5	2.3	4.6	3.2	1.4	2.2	---	---	---
24	6.0	4.2	5.0	7.0	2.0	4.4	4.7	1.4	2.6	---	---	---
25	4.9	3.9	4.5	7.7	2.6	4.8	6.0	1.5	3.4	---	---	---
26	---	---	---	6.3	1.7	4.1	8.0	2.5	4.8	---	---	---
27	---	---	---	6.3	2.4	4.0	6.4	2.5	4.0	---	---	---
28	---	---	---	5.5	2.1	3.5	9.1	1.6	5.3	---	---	---
29	---	---	---	5.2	2.3	3.6	8.3	6.4	7.4	---	---	---
30	---	---	---	5.3	2.3	3.6	10.1	7.8	9.2	---	---	---
31	---	---	---	5.8	2.1	3.6	10.0	8.2	9.2	---	---	---
MONTH	---	---	---	---	---	---	10.1	0.3	3.6	---	---	---
PERIOD	10.1	0.3	4.9									

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	15.5	13.0	14.5	---	---	---	17.5	15.0	16.5
2	15.5	13.5	14.5	---	---	---	15.0	11.5	13.5
3	18.0	16.0	17.0	---	---	---	14.0	12.5	12.5
4	19.0	17.0	18.0	---	---	---	15.5	12.0	13.5
5	18.5	16.5	18.0	---	---	---	14.5	11.0	13.0
6	17.0	15.0	15.5	---	---	---	13.5	12.0	13.0
7	15.0	13.5	14.0	---	---	---	14.5	12.0	13.0
8	14.5	12.0	13.0	---	---	---	15.5	11.5	13.5
9	14.5	12.0	13.5	---	---	---	15.0	13.0	14.0
10	13.5	12.5	13.0	---	---	---	14.0	12.5	13.0
11	14.5	12.0	13.0	---	---	---	15.0	11.5	13.0
12	14.5	11.5	13.0	---	---	---	14.0	12.5	13.0
13	16.0	13.0	14.5	---	---	---	14.0	11.5	12.5
14	16.5	14.5	15.5	---	---	---	16.5	12.0	14.0
15	15.0	13.0	14.0	---	---	---	19.5	14.5	17.0
16	13.5	12.0	12.5	---	---	---	20.0	16.5	18.5
17	12.0	10.5	11.5	---	---	---	20.5	17.5	19.0
18	11.5	10.5	11.0	---	---	---	20.5	17.5	19.0
19	12.0	10.0	11.0	---	---	---	19.0	16.5	18.0
20	11.5	11.0	11.0	---	---	---	18.0	15.0	16.5
21	12.5	10.0	11.0	---	---	---	16.5	14.5	15.5
22	12.0	9.5	11.0	---	---	---	19.0	15.5	17.5
23	12.5	10.0	11.0	---	---	---	18.5	14.5	16.0
24	13.5	11.0	12.0	---	---	---	14.5	14.0	14.0
25	13.5	13.0	13.5	---	---	---	---	---	---
26	13.5	12.5	13.0	---	---	---	15.0	13.5	14.0
27	13.5	11.5	12.5	---	---	---	13.5	12.0	12.5
28	11.5	10.0	10.5	---	---	---	14.5	11.5	13.0
29	10.5	9.5	10.0	18.0	16.5	17.5	14.0	13.0	13.5
30	---	---	---	17.5	16.5	17.0	15.5	13.5	14.5
31	---	---	---	---	---	---	16.5	15.0	16.0
MONTH	19.0	9.5	13.0	---	---	---	20.5	11.0	14.5

01094700 NORTH NASHUA RIVER NEAR LANCASTER, MASS.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974.--Continued

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	17.5	15.5	16.5	---	---	---	24.5	22.0	23.5	24.0	21.0	22.5
2	17.0	15.0	16.0	---	---	---	24.5	22.0	23.0	22.0	18.5	20.0
3	18.5	14.0	16.5	---	---	---	25.0	23.5	24.0	18.5	17.0	17.5
4	19.5	16.0	18.0	---	---	---	26.5	24.0	25.0	17.0	16.0	16.5
5	21.5	18.0	20.0	23.5	21.5	22.5	25.5	23.5	24.5	---	---	---
6	20.5	18.5	20.0	23.5	20.0	21.5	24.0	22.0	23.0	---	---	---
7	19.5	16.0	18.0	24.5	21.0	23.0	22.5	21.0	21.5	---	---	---
8	20.5	16.0	18.5	25.0	22.5	24.0	24.0	20.0	22.0	---	---	---
9	---	---	---	26.0	22.5	24.5	23.5	21.5	22.5	---	---	---
10	---	---	---	26.5	23.5	25.0	22.5	19.5	20.5	---	---	---
11	---	---	---	24.5	22.0	23.0	22.5	18.0	20.5	---	---	---
12	---	---	---	23.0	20.0	21.5	20.5	19.0	21.5	---	---	---
13	---	---	---	24.0	20.5	22.5	23.5	20.0	22.0	---	---	---
14	---	---	---	25.5	22.5	24.0	24.5	21.0	22.5	---	---	---
15	---	---	---	26.0	24.0	25.0	24.5	21.5	22.5	---	---	---
16	---	---	---	24.5	23.0	23.5	---	---	---	---	---	---
17	---	---	---	24.0	21.0	22.5	22.5	21.0	22.0	---	---	---
18	22.5	22.0	22.0	24.0	21.0	22.5	24.0	21.5	22.5	---	---	---
19	22.0	19.5	21.0	24.0	22.5	23.0	25.0	21.5	23.0	---	---	---
20	23.0	20.0	21.5	23.0	21.0	22.0	25.5	22.0	23.5	---	---	---
21	22.5	20.5	21.5	22.0	19.0	20.5	25.0	22.5	23.5	---	---	---
22	23.0	20.0	21.5	23.0	19.5	21.5	25.0	22.0	23.5	---	---	---
23	22.5	20.0	21.0	23.5	21.0	22.5	23.5	23.0	23.0	---	---	---
24	22.0	18.5	20.0	22.5	20.0	21.0	24.5	22.0	23.5	---	---	---
25	21.0	17.5	19.0	22.5	19.5	20.5	24.5	22.0	23.0	---	---	---
26	---	---	---	22.5	20.5	21.5	23.0	21.0	22.0	---	---	---
27	---	---	---	23.0	21.0	22.0	22.5	21.0	22.0	---	---	---
28	---	---	---	23.0	21.5	22.0	25.0	22.0	23.5	---	---	---
29	---	---	---	23.0	21.5	22.0	23.0	20.5	21.5	---	---	---
30	---	---	---	23.0	21.5	22.0	20.5	19.0	20.0	---	---	---
31	---	---	---	24.5	21.5	23.0	22.0	18.5	20.5	---	---	---
MONTH	---	---	---	26.5	19.0	22.5	26.5	18.0	22.5	---	---	---
PERIOD	26.5	9.5	18.5									

01096508 MERRIMACK RIVER AT NASHUA, N.H.

LOCATION.--Lat 42°45'48", long 71°26'36", Hillsborough County, on upstream side of Taylor Falls Bridge, Hudson, 50 ft (15 m) from left bank, and at east limits of Nashua.

PERIOD OF RECORD.--Chemical analyses: May to September 1974.

REMARKS.--When sampling, an attempt is made to exclude Nashua River water. Discharge computed on basis of records for gaging station at Goffs Falls and for Souhegan River at Merrimack.

CHEMICAL ANALYSES, MAY TO SEPTEMBER 1974

DATE	TIME	MEAN DAILY DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	CHLOROPHYLL A (UG/L)	CHLOROPHYLL B (UG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)
MAY												
29...	1100	11000	48	7.3	12.0	10.4	>8000	1900	.6	.3	.12	.04
JUNE												
11...	1030	3000	71	6.9	21.2	8.3	--	--	.2	2.0	.21	.08
27...	0915	2200	83	7.2	19.8	7.2	--	2400	1.4	4.0	.26	.36
JULY												
17...	0900	1400	83	6.9	24.0	7.1	21000	1600	--	--	.24	.29
31...	0830	1300	98	6.7	23.2	--	--	--	4.2	2.1	.28	.32
AUG.												
14...	1000	920	90	6.8	23.8	--	26000	1000	6.0	15	.17	.39
29...	1330	1300	105	6.7	22.5	--	210000	5600	13	4.0	.28	.67
SEP.												
16...	1145	1800	82	6.6	20.0	6.5	25000	--	7.6	.0	.21	.53
30...	0730	3400	84	6.7	16.5	7.4	67000	--	--	--	.22	.31

DATE	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	SUSPENDED SOLIDS (MG/L)	TOTAL RESIDUE (MG/L)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	OIL AND GREASE (MG/L)	TOTAL CHROMIUM (CR) (UG/L)
MAY											
29...	.24	.40	.28	.04	8	48	10	4	16	0	10
JUNE											
11...	.34	.63	.42	.07	2	54	10	2	14	0	30
27...	.52	1.1	.88	.07	7	59	20	1	18	0	30
JULY											
17...	.27	.80	.56	.08	5	66	4	2	16	0	10
31...	.08	.59	.31	.10	7	113	2	2	12	0	10
AUG.											
14...	.91	1.5	1.3	.10	6	78	2	2	14	1	10
29...	.33	1.3	1.0	.14	3	65	4	2	19	0	0
SEP.											
16...	.14	.88	.67	.12	5	54	3	2	15	0	10
30...	.24	.77	.55	.09	8	59	2	3	14	1	10

01096508 MERRIMACK RIVER AT NASHUA, N.H.--Continued

CHEMICAL ANALYSES, MAY TO SEPTEMBER 1974.--Continued

DATE	TOTAL ALUMINUM (AL) (UG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL BARIUM (BA) (UG/L)	TOTAL BERYLLIUM (BE) (UG/L)	TOTAL BISMUTH (BI) (UG/L)	TOTAL BORON (B) (UG/L)
SEP. 30...	220	480	80	12	0	10	8.6	.1	12	0	0	10

DATE	TOTAL CADMIUM (CD) (UG/L)	TOTAL COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MOLYBDENUM (MO) (UG/L)	TOTAL NICKEL (NI) (UG/L)	TOTAL SILVER (AG) (UG/L)	TOTAL STRONTIUM (SR) (UG/L)	TOTAL VANADIUM (V) (UG/L)	TOTAL ZINC (ZN) (UG/L)	TOTAL TIN (SN) (UG/L)	TOTAL GALLIUM (GA) (UG/L)
SEP. 30...	<1	0	3	7	0	1	0	40	1.0	10	0	0

DATE	TOTAL GERMANIUM (GE) (UG/L)	TOTAL LITHIUM (LI) (UG/L)	TOTAL TITANIUM (TI) (UG/L)	TOTAL ZIRCONIUM (ZR) (UG/L)	TOTAL ALUMINUM IN BOTTOM DEPOSITS (UG/G)	TOTAL IRON IN BOTTOM DEPOSITS (UG/G)	TOTAL MANGANESE IN BOTTOM DEPOSITS (UG/G)	TOTAL BARIUM IN BOTTOM DEPOSITS (UG/G)	TOTAL BERYLLIUM IN BOTTOM DEPOSITS (UG/G)	TOTAL BORON IN BOTTOM DEPOSITS (UG/G)	TOTAL CADMIUM IN BOTTOM DEPOSITS (UG/G)
SEP. 30...	0	1	15	0	380	900	25	6	0	2	0

DATE	TOTAL CHROMIUM IN BOTTOM DEPOSITS (UG/G)	TOTAL COBALT IN BOTTOM DEPOSITS (UG/G)	TOTAL COPPER IN BOTTOM DEPOSITS (UG/G)	TOTAL LEAD IN BOTTOM DEPOSITS (UG/G)	TOTAL MOLYBDENUM IN BOTTOM DEPOSITS (UG/G)	TOTAL NICKEL IN BOTTOM DEPOSITS (UG/G)	TOTAL SILVER IN BOTTOM DEPOSITS (UG/G)	TOTAL STRONTIUM IN BOTTOM DEPOSITS (UG/G)	TOTAL VANADIUM IN BOTTOM DEPOSITS (UG/G)	TOTAL ZINC IN BOTTOM DEPOSITS (UG/G)	TOTAL TITANIUM IN BOTTOM DEPOSITS (UG/G)
SEP. 30...	10	0	4	5	0	5	0	1	.5	14	80

01096550 MERRIMACK RIVER ABOVE LOWELL, MASS.
(National Stream-Quality Accounting Network Station)

LOCATION.--Lat 42°38'20", long 71°22'17", Middlesex County, two-parameter monitor on left bank at intake of Lowell water treatment plant, 2.7 mi (4.3 km) upstream from Pawtucket Dam, and 6 mi (9.7 km) downstream from Massachusetts-New Hampshire State line.

PERIOD OF RECORD.--Chemical analyses: August 1969 to current year.
Water temperatures: January to September 1973.

REMARKS.--Discharge computed on basis of records for gaging station below Concord River (sta. 01100000) and gaging station on Concord River (sta. 01099500).

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	AIR TEMPERATURE (DEG C)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	TOTAL PHYTOPLANKTON (CELLS PER ML)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)
OCT.										
29...	1300	2870	112	6.9	13.0	11.0	6.2	15000	58000	570
NOV.										
27...	1000	4140	97	6.8	8.0	6.0	8.9	2200	42000	2300
DEC.										
19...	1000	22300	60	6.5	.0	.0	1.2	1000	730	110
FEB.										
04...	0800	13100	74	--	-7.0	.0	12.6	430	10000	860
27...	1330	10600	83	--	6.0	1.0	11.5	1100	4300	350
MAR.										
12...	0930	9350	64	--	.0	2.0	12.1	4200	1700	450
APR.										
10...	1230	17000	64	--	3.8	3.5	11.3	1100	5000	450
MAY										
29...	0930	14200	57	7.0	14.5	11.5	10.4	3000	>6200	2100
JUNE										
10...	1200	4600	79	7.1	--	22.5	7.7	8400	35000	1000
JULY										
09...	1030	4150	95	7.1	--	26.0	7.1	8400	--	--
AUG.										
14...	0815	1910	108	7.4	--	24.5	7.9	40000	93000	2100
SEP.										
25...	1150	3420	11[illegible]	6.7	--	18.0	7.4	12000	10000	1100

DATE	STREPTOCOCCI (COLONIES PER 100 ML)	CHLOROPHYLL A (UG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)
OCT.										
29...	83	--	1.7	.00	1.7	1.2	.10	3.0	1.3	.20
NOV.										
27...	660	--	.28	.02	.30	1.0	.00	1.3	1.0	.14
DEC.										
19...	33	--	.19	.00	.19	.13	.24	.56	.37	.09
FEB.										
04...	390	--	.21	.01	.22	.35	.25	.82	.60	.04
27...	600	--	--	--	--	.41	.11	--	.52	.06
MAR.										
12...	170	--	.22	.01	.23	.50	.26	.99	.76	.04
APR.										
10...	75	--	.22	.01	.23	.28	.11	.62	.39	.04
MAY										
29...	120	--	--	--	.15	--	--	.73	.58	.05
JUNE										
10...	97	--	--	--	.23	--	--	1.2	1.0	.09
JULY										
09...	--	--	--	--	.34	--	--	1.5	1.2	.13
AUG.										
14...	18	19	--	--	.25	--	--	1.9	1.6	.19
SEP.										
25...	36	--	--	--	.29	--	--	1.3	1.0	.12

01096550 MERRIMACK RIVER ABOVE LOWELL, MASS.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974.--Continued

DATE	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	SUS-PENDED MAN-GANESE (MN) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)
OCT. 29...	4.2	--	--	--	--	--	6.0	1.2	13	1.7
NOV. 27...	6.8	520	190	110	--	90	5.2	1.0	9.0	1.3
MAR. 12...	4.5	<1	--	80	--	--	3.9	.7	5.5	.8
JULY 09...	4.7	590	130	100	70	30	5.6	1.0	7.0	1.0

DATE	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)
OCT. 29...	9	0	7	9.0	16	.3	74	56	20	13
NOV. 27...	8	0	7	7.8	13	.3	68	49	17	11
MAR. 12...	8	0	7	7.1	8.6	.1	47	35	13	6
JULY 09...	12	0	10	9.4	13	.4	55	48	18	8

DATE	CARBON DIOXIDE (CO2) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	TOTAL ARSENIC (AS) (UG/L)	SUS-PENDED ARSENIC (AS) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	SUS-PENDED CAD-MIUM (CD) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	SUS-PENDED CHRO-MIUM (CR) (UG/L)
OCT. 29...	1.8	--	--	--	--	--	--	--	--	--
NOV. 27...	2.0	7.0	1	--	1	2	--	2	10	--
MAR. 12...	--	4.3	1	--	1	0	--	0	0	--
JULY 09...	1.5	4.9	2	1	<1	0	0	0	10	10

DATE	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	TOTAL COBALT (CO) (UG/L)	SUS-PENDED COBALT (CO) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	SUS-PENDED COPPER (CU) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	SUS-PENDED LEAD (PB) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)
NOV. 27...	10	0	--	1	20	--	20	3	--	2
MAR. 12...	0	0	--	0	0	--	20	2	--	5
JULY 09...	0	1	1	0	20	10	10	5	1	4

DATE	TOTAL MERCURY (HG) (UG/L)	SUS-PENDED MERCURY (HG) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	TOTAL SELE-NIUM (SE) (UG/L)	SUS-PENDED SELE-NIUM (SE) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	TOTAL ZINC (ZN) (UG/L)	SUS-PENDED ZINC (ZN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
NOV. 27...	<.5	--	.7	14	--	15	40	--	30
MAR. 12...	<.5	--	<.5	2	--	2	30	--	30
JULY 09...	<.5	<.0	<.5	<1	<0	<1	30	30	0

01096906 BOULDER BROOK NEAR EAST BOLTON, MASS.

LOCATION.--Lat 42°27'10", long 71°34'52", Worcester County, two-parameter monitor at culvert on Brown Road, 400 ft (122 m) upstream from Interstate Highway 495, 0.3 mi (0.5 km) upstream from gaging station, and 1.1 mi (1.8 km) west of East Bolton.

PERIOD OF RECORD.--Chemical analyses: June 1971 to current year.
Water temperatures: June 1971 to current year.

EXTREMES.--Current year:
Specific conductance: Maximum, 128 micromhos Aug. 29: minimum, 40 micromhos May 26.
Water temperatures: Maximum observed, 21.5°C Sept. 13; minimum, freezing point on many days during winter period.

Period of record:
Specific conductance: Maximum, 195 micromhos Nov. 9, 1971; minimum, 40 micromhos May 26, 1974.
Water temperatures: Maximum, 26.5°C July 8, 1971; minimum, freezing point on many days during winter periods.

REMARKS.--Figures of daily discharge, computed on basis of records for gaging station 0.3 mi (0.5 km) downstream, are available at district office. No flow Aug. 1-28. Recording air-temperature gage located at station since October 1972.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C) • WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	109	102	105	110	100	104	93	91	92	68	66	67
2	108	102	105	105	103	104	91	88	90	69	68	68
3	108	102	104	103	99	101	90	89	90	69	67	68
4	107	100	104	99	96	98	92	90	91	68	67	67
5	108	98	104	97	95	96	93	76	87	70	67	69
6	105	95	99	97	94	95	88	76	83	71	69	70
7	104	94	98	96	94	95	89	87	88	70	69	70
8	107	95	102	95	94	94	89	88	89	73	69	71
9	107	99	104	94	93	94	89	70	80	75	72	74
10	103	98	100	94	92	93	86	76	82	72	70	71
11	105	98	101	93	81	90	86	86	86	71	68	69
12	108	100	105	93	91	92	87	86	86	70	69	70
13	107	100	103	93	92	93	88	86	87	73	58	65
14	110	105	106	96	94	94	87	63	75	75	55	68
15	108	105	106	96	95	96	80	73	77	73	72	72
16	108	105	107	97	94	96	80	78	80	72	71	72
17	110	107	108	94	92	93	78	50	64	72	52	68
18	110	108	109	93	91	92	70	57	65	74	50	64
19	110	107	108	93	91	93	76	66	73	73	69	71
20	112	109	110	94	91	93	75	72	73	76	66	73
21	110	108	109	93	84	92	73	59	67	74	61	71
22	108	103	107	93	89	91	70	66	69	73	62	69
23	108	103	106	95	93	94	70	69	70	73	67	71
24	108	101	104	94	92	93	72	70	71	71	68	70
25	107	99	102	92	87	90	73	69	72	71	70	71
26	111	99	104	93	88	91	71	65	68	71	69	71
27	105	99	101	93	91	92	65	56	61	71	61	65
28	108	100	105	88	79	84	67	64	66	69	64	67
29	114	103	108	91	86	89	68	65	67	70	66	69
30	113	90	102	93	91	92	68	66	68	71	69	70
31	113	104	108	---	---	---	68	66	67	72	70	71
MONTH	114	90	105	110	79	94	93	50	77	76	50	69

01096906 BOULDER BROOK NEAR EAST BOLTON, MASS.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974.--Continued

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	72	71	72	75	73	74	60	65	66	72	66	69
2	71	69	70	75	73	74	68	64	66	73	68	70
3	72	69	71	75	74	75	69	65	67	73	67	70
4	71	68	70	76	73	75	69	67	69	71	66	68
5	74	71	72	78	75	77	70	69	70	75	68	71
6	75	71	73	78	76	77	70	67	69	74	69	71
7	73	70	71	78	77	77	70	67	68	73	70	72
8	72	62	71	79	77	78	70	68	69	74	70	72
9	73	68	72	77	76	77	69	62	65	76	71	73
10	74	55	70	77	75	76	66	62	64	78	63	73
11	74	72	73	77	76	77	66	61	65	77	69	72
12	75	69	73	76	76	76	67	63	65	76	62	73
13	75	69	73	79	75	77	67	65	66	67	58	63
14	74	73	74	79	75	77	69	65	66	73	67	69
15	77	74	76	77	75	76	67	60	64	76	71	73
16	80	66	76	76	71	75	69	65	66	79	74	76
17	77	76	76	70	61	67	70	67	68	79	71	75
18	78	77	77	72	69	71	70	68	69	83	76	80
19	80	70	78	74	71	72	70	66	68	84	76	80
20	72	66	70	75	72	74	69	66	68	84	73	79
21	74	72	73	75	47	65	71	66	68	82	73	77
22	74	64	71	65	54	60	72	68	70	89	76	80
23	69	65	68	68	65	66	72	69	71	91	78	77
24	75	70	73	68	67	68	70	67	68	74	67	72
25	74	72	73	69	66	67	70	66	68	65	41	56
26	75	72	74	68	65	67	71	67	69	69	40	66
27	77	73	75	67	66	67	72	68	70	73	69	70
28	76	72	74	68	66	66	72	69	70	75	70	72
29	---	---	---	70	66	68	76	70	73	71	64	67
30	---	---	---	66	64	66	76	73	74	74	67	71
31	---	---	---	65	62	64	---	---	---	75	71	72
MONTH	80	55	73	79	47	72	76	60	68	91	40	72

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	74	62	68	90	82	88	---	---	---	102	99	100
2	71	67	69	89	73	83	---	---	---	102	98	100
3	72	70	71	93	78	86	---	---	---	100	86	95
4	76	71	73	91	87	90	---	---	---	102	86	99
5	78	74	76	92	66	85	---	---	---	104	101	102
6	78	75	76	84	57	72	---	---	---	104	101	102
7	83	74	77	90	65	79	---	---	---	102	84	93
8	86	75	79	92	80	90	---	---	---	108	94	100
9	87	78	83	92	75	88	---	---	---	102	96	98
10	88	81	84	93	80	89	---	---	---	102	97	98
11	88	83	85	94	60	82	---	---	---	103	98	100
12	85	81	83	95	75	84	---	---	---	105	99	102
13	86	83	84	99	64	83	---	---	---	113	100	104
14	95	81	83	98	67	86	---	---	---	101	90	94
15	86	81	84	98	75	90	---	---	---	102	98	100
16	86	54	75	---	---	90	---	---	---	108	98	102
17	71	62	66	---	---	94	---	---	---	109	98	102
18	77	71	73	---	---	94	---	---	---	109	98	104
19	81	76	78	---	---	97	---	---	---	108	100	103
20	83	77	79	---	---	93	---	---	---	112	102	105
21	83	80	82	---	---	95	---	---	---	102	90	99
22	84	80	81	---	---	96	---	---	---	90	70	86
23	84	78	82	---	---	99	---	---	---	97	89	94
24	86	74	83	---	---	98	---	---	---	96	93	94
25	88	81	84	---	---	100	---	---	---	96	87	94
26	84	75	80	---	---	102	---	---	---	97	94	96
27	84	71	82	---	---	105	---	---	---	99	97	98
28	86	73	84	---	---	103	---	---	---	100	83	98
29	107	76	86	---	---	103	128	108	112	74	45	62
30	100	76	86	---	---	104	102	87	90	80	63	70
31	---	---	---	---	---	103	101	95	98	---	---	---
MONTH	107	54	79	---	---	92	---	---	---	113	45	96
YEAR	128	40	82									

NOTE.--The figures on those days showing only mean specific conductance are based on the relationship between discharge and specific conductance.

MERRIMACK RIVER BASIN

01096906 BOULDER BROOK NEAR EAST BOLTON, MASS.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	16.5	13.5	15.0	10.0	8.5	9.0	3.5	1.0	2.5	2.5	2.0	2.0
2	16.5	13.0	15.0	9.0	7.5	8.5	1.5	0.0	0.5	2.0	0.5	1.0
3	16.5	15.0	15.5	9.0	7.0	8.0	2.0	0.0	1.0	2.0	0.5	1.0
4	17.5	14.5	16.0	7.5	5.0	6.0	4.5	1.5	3.0	2.0	0.5	1.0
5	16.5	14.0	15.5	6.0	4.0	5.0	8.0	4.0	6.0	1.0	0.0	0.0
6	14.5	12.0	13.0	5.0	3.0	4.0	8.5	4.5	7.0	1.5	0.0	0.5
7	13.5	10.5	12.0	5.5	3.0	4.0	4.5	2.5	3.5	1.5	0.0	0.5
8	13.5	9.5	11.5	5.0	2.5	4.0	3.0	2.0	2.5	0.5	0.0	0.0
9	13.0	9.5	11.5	5.5	3.5	4.5	5.5	2.5	3.5	0.0	0.0	0.0
10	12.0	9.5	11.0	3.5	1.0	2.0	6.0	4.5	5.5	0.0	0.0	0.0
11	12.0	9.5	10.5	3.0	0.0	1.5	4.5	2.5	3.5	0.0	0.0	0.0
12	12.5	9.0	11.0	4.0	1.0	2.5	3.0	1.5	2.5	0.5	0.0	0.0
13	15.0	10.5	12.5	5.0	2.5	3.5	2.0	0.0	1.5	0.0	0.0	0.0
14	14.0	12.0	13.5	8.5	5.0	6.5	5.0	2.5	4.0	0.0	0.0	0.0
15	13.0	10.5	11.5	8.0	5.0	6.5	4.5	2.5	3.5	0.5	0.0	0.5
16	12.0	9.5	10.5	8.0	4.5	6.5	2.5	1.0	2.0	1.0	0.0	0.5
17	10.5	8.0	9.5	4.5	2.5	3.5	2.0	1.5	1.5	0.0	0.0	0.0
18	10.5	8.0	9.0	5.0	2.5	3.5	2.0	0.0	1.0	0.0	0.0	0.0
19	10.0	7.5	8.5	5.5	2.5	4.5	1.0	0.0	0.5	0.5	0.0	0.0
20	9.5	8.5	8.5	3.5	1.0	2.0	1.5	0.5	1.0	0.0	0.0	0.0
21	10.0	7.0	8.5	3.5	0.5	2.0	5.0	1.5	3.0	0.5	0.0	0.0
22	10.0	6.5	8.0	5.5	3.5	4.5	3.5	0.5	1.5	1.5	0.0	0.5
23	11.5	6.5	9.0	5.5	4.0	5.0	2.0	0.5	1.5	2.5	0.5	1.5
24	12.0	7.5	10.0	5.0	3.0	4.5	1.5	0.0	0.5	2.0	0.5	1.5
25	11.0	10.0	10.5	6.5	5.0	6.0	1.0	0.0	0.5	2.0	0.5	1.5
26	11.0	9.5	10.0	5.0	3.5	4.0	3.5	1.0	2.5	2.5	0.5	1.5
27	11.0	8.0	9.5	4.5	4.0	4.0	4.0	3.0	4.0	3.5	2.0	2.5
28	8.5	6.0	7.0	5.5	4.5	5.0	4.5	3.0	4.0	4.0	2.0	3.0
29	8.5	6.5	7.5	5.5	3.5	4.5	4.5	2.5	3.5	4.5	3.0	3.5
30	11.5	8.5	10.0	4.5	3.0	4.0	4.5	2.0	3.5	4.5	2.0	3.0
31	10.5	9.0	9.5	---	---	---	2.0	1.5	2.0	4.5	2.0	3.5
MONTH	17.5	6.0	11.0	10.0	0.0	4.5	8.5	0.0	2.5	4.5	0.0	1.0

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	3.5	0.0	1.0	4.0	1.5	3.0	8.0	3.0	5.0	15.5	11.5	13.0
2	0.0	0.0	0.0	3.5	1.5	2.5	5.5	4.0	5.0	13.0	7.5	10.5
3	0.0	0.0	0.0	2.5	2.0	2.0	10.5	2.5	6.5	10.0	8.0	9.0
4	0.0	0.0	0.0	6.0	2.0	4.0	11.5	8.0	9.5	13.0	8.0	10.5
5	0.0	0.0	0.0	7.5	5.5	6.5	11.0	9.0	10.5	12.5	6.5	10.0
6	0.0	0.0	0.0	7.0	3.0	5.0	9.0	5.5	7.0	11.0	8.5	9.5
7	0.0	0.0	0.0	9.0	4.0	6.5	9.0	3.0	6.0	11.0	8.5	10.0
8	0.0	0.0	0.0	7.0	3.5	5.0	8.0	6.0	7.0	13.0	7.0	10.0
9	0.5	0.0	0.0	3.5	2.0	2.5	6.0	0.5	2.5	12.5	9.0	10.5
10	0.0	0.0	0.0	4.5	2.0	3.0	3.5	0.5	2.0	10.5	9.0	9.5
11	0.5	0.0	0.0	4.5	0.0	2.0	8.0	1.0	4.5	13.0	8.5	10.5
12	0.0	0.0	0.0	3.5	0.5	2.0	8.5	3.5	6.0	10.5	9.5	10.0
13	1.0	0.0	0.0	1.5	0.0	0.5	7.0	5.0	6.0	12.5	9.5	11.0
14	1.5	0.0	0.5	3.5	0.0	1.5	11.5	5.0	8.0	15.0	9.0	12.0
15	0.0	0.0	0.0	5.0	0.0	2.5	12.0	8.5	10.0	17.5	12.0	15.0
16	0.0	0.0	0.0	4.5	2.5	3.0	12.0	7.0	9.5	17.5	13.5	15.5
17	1.0	0.0	0.0	5.5	2.5	4.5	12.5	6.5	9.5	18.0	14.5	16.5
18	1.0	0.0	0.0	4.5	1.0	3.0	13.0	8.0	10.5	17.5	14.0	16.0
19	0.5	0.0	0.0	6.5	2.0	3.5	11.0	8.0	9.5	16.0	13.0	14.5
20	1.5	0.0	0.5	6.5	2.5	4.5	12.0	5.0	8.5	15.0	11.0	13.0
21	2.5	0.0	1.0	3.5	1.0	2.0	13.0	6.5	10.0	13.5	10.5	12.0
22	2.0	0.5	1.0	5.0	0.0	2.5	13.5	10.0	11.5	16.0	11.5	14.0
23	2.5	0.0	2.0	4.5	0.0	2.5	13.0	11.5	12.0	14.0	10.5	11.5
24	2.0	0.0	0.5	6.0	3.5	5.0	11.0	7.5	9.0	10.5	10.0	10.5
25	1.5	0.0	0.5	5.0	0.0	2.5	11.0	5.5	8.0	12.0	10.0	11.0
26	2.5	0.0	1.0	5.0	0.0	2.5	10.0	6.0	8.0	11.0	10.0	10.0
27	3.0	0.0	1.0	6.0	1.0	3.5	13.0	5.5	9.5	9.5	9.0	9.5
28	4.0	0.0	2.0	6.0	1.0	3.5	13.5	8.5	11.0	11.5	8.5	10.0
29	---	---	---	3.5	0.0	2.0	16.5	10.5	13.5	10.0	10.0	10.0
30	---	---	---	3.0	1.5	2.0	15.0	13.0	14.0	12.0	10.0	11.0
31	---	---	---	4.0	2.5	3.5	---	---	---	13.0	11.0	12.0
MONTH	4.0	0.0	0.5	9.0	0.0	3.0	16.5	0.5	8.5	18.0	6.5	11.5

01096906 BOULDER BROOK NEAR EAST BOLTON, MASS.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974.--Continued

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	14.0	12.5	13.0	---	---	---	---	---	---	21.0	19.0	20.0
2	13.5	12.0	12.5	---	---	---	---	---	---	19.5	17.5	18.5
3	15.5	10.5	13.0	---	---	---	---	---	---	17.5	15.0	16.5
4	17.0	11.5	14.5	---	---	---	---	---	---	15.0	14.0	14.0
5	18.0	14.0	16.0	---	---	---	---	---	---	16.5	12.5	14.5
6	17.0	14.5	16.0	---	---	---	---	---	---	16.5	14.5	15.5
7	15.5	12.0	14.0	---	---	---	---	---	---	16.0	13.5	14.5
8	16.5	11.0	14.0	---	---	---	---	---	---	15.5	13.0	14.0
9	19.5	15.0	17.5	---	---	---	---	---	---	16.5	14.0	15.0
10	20.5	17.0	19.0	---	---	---	---	---	---	19.0	14.5	16.5
11	18.5	16.0	17.0	---	---	---	---	---	---	19.5	16.0	17.5
12	16.5	14.0	15.5	---	---	---	---	---	---	21.0	17.0	19.0
13	17.0	12.5	15.0	---	---	---	---	---	---	21.5	19.0	20.0
14	17.5	11.5	15.0	---	---	---	---	---	---	21.0	17.0	18.0
15	17.5	12.0	15.5	---	---	---	---	---	---	19.0	15.0	16.5
16	16.5	14.5	15.5	---	---	---	---	---	---	18.5	15.5	16.5
17	17.0	14.5	15.5	---	---	---	---	---	---	18.0	14.5	16.0
18	19.0	15.5	17.0	---	---	---	---	---	---	18.5	15.5	17.0
19	18.5	14.0	16.5	---	---	---	---	---	---	18.5	16.0	17.0
20	19.0	15.0	17.0	---	---	---	---	---	---	19.0	17.0	18.0
21	17.5	15.5	17.0	---	---	---	---	---	---	18.5	16.0	16.5
22	18.5	14.5	16.5	---	---	---	---	---	---	17.0	13.5	14.5
23	17.5	14.5	15.5	---	---	---	---	---	---	13.0	11.5	12.5
24	17.5	10.5	15.0	---	---	---	---	---	---	12.0	9.0	10.5
25	---	---	---	---	---	---	---	---	---	11.5	8.5	10.0
26	---	---	---	---	---	---	---	---	---	12.5	10.0	11.5
27	---	---	---	---	---	---	---	---	---	15.0	10.5	13.0
28	---	---	---	---	---	---	---	---	---	16.0	12.5	14.5
29	---	---	---	---	---	---	17.5	15.0	17.0	16.0	14.5	15.0
30	---	---	---	---	---	---	18.5	16.0	17.5	14.5	11.5	13.0
31	---	---	---	---	---	---	21.0	16.5	18.5	---	---	---
MONTH	20.5	10.5	15.5	---	---	---	---	---	---	21.5	8.5	15.5
YEAR	21.5	0.0	7.5									

01096910 BOULDER BROOK AT EAST BOLTON, MASS.

LOCATION.--Lat 42°27'04", long 71°34'39", Worcester County, two-parameter monitor at gaging station on right bank 900 ft (300 m) downstream from Interstate Highway 495, 0.9 mi (1.4 km) west of East Bolton, and 1.3 mi (2.1 km) upstream from mouth.

DRAINAGE AREA.--1.61 mi² (4.17 km²).

PERIOD OF RECORD.--Chemical analyses: June 1971 to current year.
Water temperatures: June 1971 to current year.

EXTREMES.--Current year:
Specific conductance: Maximum, 535 micromhos Sept. 12; minimum, 68 micromhos Mar. 21, Sept. 29.
Water temperatures: Maximum, 27.5°C July 10, 14; minimum, freezing point on many days during winter period.

Period of record:
Specific conductance: Maximum, 754 micromhos Feb. 13, 1972; minimum, 68 micromhos June 27, 1973, Mar. 21, Sept. 29, 1974.
Water temperatures: Maximum, 28.0°C June 30, 1971; minimum, freezing point on many days during winter periods.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	415	410	412	194	177	185	185	176	182	214	119	147
2	420	413	416	208	190	200	194	187	191	127	120	124
3	419	400	412	221	209	215	201	194	197	129	125	127
4	400	381	394	229	221	226	197	193	195	130	125	127
5	401	255	324	238	230	234	197	147	182	137	129	132
6	329	263	292	244	233	239	152	120	138	136	132	134
7	354	332	341	247	242	245	164	153	160	137	133	135
8	364	350	357	254	246	249	176	166	172	149	134	141
9	385	360	366	255	250	252	181	107	147	151	141	147
10	404	372	382	260	250	254	145	116	134	142	132	137
11	390	371	381	264	255	260	154	146	151	135	131	134
12	385	368	375	262	256	259	160	155	157	137	132	135
13	411	381	390	259	256	257	169	160	166	142	136	139
14	443	399	412	262	257	260	168	91	126	145	139	142
15	440	415	425	265	260	263	139	116	130	142	136	138
16	430	409	418	271	255	261	144	139	142	139	134	137
17	426	412	419	264	255	260	300	79	133	145	135	140
18	419	387	401	266	261	264	123	90	109	150	142	146
19	388	382	384	266	258	260	131	125	129	352	142	215
20	392	366	379	266	258	262	146	128	133	165	144	149
21	367	363	365	270	262	266	177	88	120	215	127	156
22	375	366	370	258	199	219	118	103	112	138	116	125
23	385	373	378	226	209	218	120	115	118	146	122	131
24	392	384	388	234	224	229	130	119	123	132	121	127
25	393	389	391	222	173	197	133	123	128	139	131	135
26	393	389	392	197	170	183	123	101	116	139	132	136
27	394	387	391	204	194	200	107	81	94	139	100	114
28	396	386	392	191	136	154	112	105	109	123	107	116
29	387	222	363	166	146	156	118	112	115	121	107	116
30	216	129	163	180	167	174	119	112	116	124	121	122
31	184	167	174	---	---	---	122	115	118	126	122	124
MONTH	443	129	369	271	136	230	300	79	140	352	100	136

01096910 BOULDER BROOK AT EAST BOLTON, MASS.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974.--Continued

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	127	122	123	135	131	133	112	100	108	136	94	112
2	138	123	129	136	132	134	114	99	108	133	122	127
3	133	116	121	136	133	135	117	103	110	136	121	131
4	125	122	123	136	131	133	120	109	114	132	118	125
5	135	126	131	139	132	135	122	109	116	137	131	134
6	139	128	134	141	136	138	119	110	116	139	135	136
7	129	126	127	141	138	139	124	116	120	142	133	135
8	132	127	129	141	137	140	124	121	122	141	136	137
9	125	128	131	141	138	140	151	103	122	142	137	139
10	135	134	137	148	133	136	133	113	121	142	102	125
11	138	134	136	142	133	139	173	96	121	130	110	121
12	140	134	137	142	136	139	113	96	104	134	108	130
13	144	123	136	153	139	145	115	103	107	120	76	102
14	139	125	131	147	134	142	122	104	115	134	120	126
15	146	133	140	144	136	139	128	87	103	141	132	135
16	156	138	146	141	112	134	120	112	116	145	136	140
17	173	141	147	115	83	98	123	117	120	149	131	139
18	147	142	145	124	115	121	125	120	123	149	141	143
19	225	142	154	129	123	126	131	107	115	153	146	148
20	127	106	114	131	127	129	124	113	119	153	147	150
21	133	120	127	215	68	117	128	120	124	155	148	151
22	142	95	124	101	77	93	130	124	127	158	151	154
23	124	98	113	108	102	105	140	124	128	159	116	147
24	135	126	129	112	107	110	129	113	119	138	111	120
25	133	128	131	115	110	113	129	120	124	134	109	120
26	135	129	132	116	112	114	131	126	129	127	118	122
27	143	130	136	115	112	114	135	127	131	135	127	130
28	137	132	135	116	114	115	138	132	134	141	133	136
29	---	---	---	126	115	117	141	134	137	143	127	136
30	---	---	---	134	114	121	151	137	139	136	130	132
31	---	---	---	118	88	97	---	---	---	143	136	139
MONTH	225	95	132	215	68	126	173	87	120	159	78	133

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	144	100	123	237	212	226	440	410	422	446	414	421
2	136	114	125	238	224	230	440	421	431	448	360	408
3	147	134	138	238	153	191	440	400	416	429	223	348
4	153	142	146	211	171	192	429	371	401	265	178	217
5	163	147	154	237	118	201	437	421	427	---	---	310
6	166	155	160	151	112	129	443	429	435	379	350	367
7	171	162	167	187	153	166	443	434	438	374	151	214
8	186	172	179	221	189	206	455	437	442	283	205	241
9	200	187	193	226	213	219	458	443	448	327	287	306
10	223	201	211	251	227	239	450	440	443	361	330	348
11	225	218	222	272	252	262	470	442	451	533	363	391
12	221	219	220	288	273	282	470	443	453	535	363	427
13	225	219	222	296	288	293	473	443	454	---	---	420
14	226	221	224	315	297	308	470	443	456	---	---	280
15	247	228	239	339	316	329	465	438	451	---	---	300
16	253	82	182	337	319	331	463	434	446	---	---	420
17	121	86	102	318	291	304	455	394	440	413	408	410
18	147	122	133	340	305	326	463	392	440	414	403	406
19	172	148	156	357	333	348	468	437	449	414	410	411
20	175	159	167	330	270	293	465	434	446	416	366	411
21	182	171	178	337	296	318	455	429	440	366	134	330
22	173	161	165	361	340	354	446	421	435	231	135	191
23	180	174	176	387	361	377	445	361	423	289	236	260
24	191	180	185	394	379	387	458	426	441	315	293	305
25	201	193	199	400	379	395	448	430	440	336	319	330
26	198	173	182	405	397	401	446	418	434	344	334	339
27	179	174	175	408	394	401	440	422	430	364	339	355
28	192	180	184	406	403	405	443	374	422	381	195	359
29	201	190	195	406	398	403	435	345	397	203	68	110
30	212	194	199	403	398	401	429	276	335	156	105	133
31	---	---	---	424	397	407	416	349	382	---	---	---
MONTH	253	82	177	424	112	301	473	276	431	535	68	326
YEAR	535	68	219									

01096910 BOULDER BROOK AT EAST BOLTON, MASS.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	12.5	6.0	9.0	10.0	7.5	9.0	4.0	1.0	3.0	3.0	2.0	2.5
2	13.5	6.5	10.5	10.0	6.5	8.0	2.0	0.5	1.0	2.0	1.0	1.0
3	16.0	12.0	13.5	9.0	5.0	7.5	3.0	0.5	1.0	2.0	1.0	1.5
4	17.5	12.0	14.5	6.5	3.5	5.0	6.0	0.5	3.5	2.0	1.0	1.0
5	15.5	11.5	13.5	6.0	2.5	4.0	9.5	3.5	6.5	1.0	1.0	1.0
6	14.0	8.5	11.0	4.5	1.5	2.5	10.0	5.0	8.0	1.5	1.0	1.0
7	13.0	7.0	9.5	5.5	2.0	3.5	5.5	2.0	4.0	1.5	1.0	1.0
8	12.5	5.5	8.5	6.0	2.0	4.0	3.5	1.5	2.5	1.0	1.0	1.0
9	12.0	5.5	8.5	6.0	3.0	4.5	6.5	2.5	4.0	1.0	1.0	1.0
10	10.0	5.5	8.0	3.5	1.0	1.5	7.0	4.5	6.0	1.0	1.0	1.0
11	11.0	6.0	8.0	2.5	1.0	1.0	5.0	2.5	4.0	1.0	1.0	1.0
12	12.5	4.5	8.5	5.5	1.0	3.0	3.0	0.5	2.0	1.0	1.0	1.0
13	14.5	7.0	11.0	6.0	2.5	4.5	2.0	0.5	1.0	1.0	1.0	1.0
14	12.5	9.0	11.0	11.0	6.0	8.0	5.0	2.0	3.5	1.0	1.0	1.0
15	10.5	7.0	9.0	10.0	5.0	7.5	4.0	2.0	3.0	1.0	1.0	1.0
16	9.5	5.5	7.5	9.0	4.0	7.0	2.5	0.5	1.5	1.0	1.0	1.0
17	8.5	4.5	6.5	4.0	1.5	3.0	1.5	0.5	1.0	1.0	1.0	1.0
18	9.0	5.0	7.0	5.5	2.0	3.5	1.5	0.5	0.5	1.0	1.0	1.0
19	8.5	5.0	6.5	6.5	1.5	4.5	0.5	0.5	0.5	1.0	1.0	1.0
20	8.5	6.5	7.0	4.0	0.5	1.5	1.0	0.5	0.5	1.0	1.0	1.0
21	9.0	4.0	6.5	4.0	0.5	2.0	5.0	1.0	3.0	1.0	1.0	1.0
22	9.0	3.0	5.5	7.0	4.0	5.5	3.5	0.5	1.0	1.0	1.0	1.0
23	10.5	3.0	6.5	8.0	4.0	6.0	2.0	0.5	1.0	3.0	1.0	1.5
24	10.5	4.5	8.0	7.0	3.0	5.0	0.5	0.5	0.5	2.5	1.0	1.5
25	11.0	9.0	10.0	8.5	6.5	7.5	0.5	0.5	0.5	2.5	1.0	1.5
26	11.0	8.0	9.5	6.0	3.5	4.5	4.0	0.5	2.5	3.0	1.0	2.0
27	10.5	5.0	8.0	5.5	4.5	5.0	4.5	3.5	4.0	4.5	2.0	3.0
28	8.0	2.5	5.5	7.0	5.5	6.0	4.5	3.0	4.0	4.5	2.5	3.5
29	8.5	5.0	6.5	7.0	4.0	5.5	4.5	2.5	3.5	5.0	3.0	4.0
30	11.5	9.0	10.0	6.0	3.5	4.5	5.0	2.0	3.5	5.0	2.5	3.5
31	11.0	8.5	9.5	---	---	---	2.0	1.5	1.5	5.5	2.0	3.5
MONTH	17.5	2.5	9.0	11.0	0.5	5.0	10.0	0.5	2.5	5.5	1.0	1.5

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	2.5	0.5	1.0	4.5	1.5	2.5	8.5	2.0	5.0	18.0	10.0	13.5
2	0.5	0.5	0.5	3.5	0.5	2.0	5.5	3.5	5.0	15.0	7.0	10.5
3	0.5	0.5	0.5	2.5	2.0	2.0	12.0	2.5	7.0	10.0	8.0	9.0
4	0.5	0.5	0.5	7.0	2.0	5.0	13.5	8.5	10.5	15.5	8.0	11.0
5	0.5	0.5	0.5	8.5	5.0	7.0	12.5	9.5	11.0	15.0	6.0	10.0
6	0.5	0.5	0.5	8.0	2.5	5.5	9.5	5.0	7.5	13.0	8.0	10.0
7	0.5	0.5	0.5	10.5	4.5	7.0	11.0	3.0	6.5	12.5	8.5	10.0
8	0.5	0.5	0.5	6.5	3.5	5.0	8.5	6.0	7.0	16.5	6.5	11.0
9	0.5	0.5	0.5	3.5	2.0	3.0	5.5	0.5	1.5	14.0	8.5	11.0
10	0.5	0.5	0.5	5.5	0.0	2.5	4.0	0.5	2.0	10.5	9.0	9.5
11	0.5	0.5	0.5	5.0	0.5	2.0	9.0	0.5	4.5	15.0	8.5	11.5
12	0.5	0.5	0.5	4.5	0.5	1.5	9.0	3.5	6.0	11.5	9.5	10.0
13	1.0	0.5	0.5	1.5	0.5	0.5	6.5	5.0	5.5	13.5	9.5	11.0
14	1.0	0.5	0.5	4.0	0.5	1.5	12.5	4.5	8.5	18.0	8.5	13.0
15	0.5	0.5	0.5	6.0	0.5	2.5	12.0	8.0	10.0	21.5	12.0	16.0
16	0.5	0.5	0.5	4.5	1.5	2.5	12.5	6.5	9.0	21.0	13.0	16.5
17	1.0	0.0	0.5	5.5	1.0	4.0	14.0	5.5	9.5	21.5	14.0	17.0
18	1.0	0.0	0.5	4.5	0.5	2.0	14.0	7.0	10.5	20.5	13.0	16.5
19	0.0	0.0	0.0	6.5	0.5	3.0	10.5	6.5	9.0	19.5	12.0	14.5
20	1.0	0.0	0.5	7.5	1.5	4.0	12.5	4.0	8.0	18.5	10.0	13.0
21	2.5	0.0	1.0	2.5	0.5	1.0	15.5	6.0	10.5	15.5	9.0	12.0
22	2.0	0.0	1.0	5.0	0.5	2.0	16.0	10.0	12.5	19.5	11.0	14.5
23	2.5	0.0	1.5	5.0	0.5	3.0	14.0	11.0	12.5	13.5	10.5	11.5
24	2.0	0.0	0.5	6.0	2.5	5.0	10.5	7.0	9.0	11.0	10.0	10.5
25	1.5	0.0	0.5	5.0	0.5	2.0	13.0	5.5	8.5	13.0	10.0	11.5
26	2.5	0.0	0.5	5.0	0.5	2.0	11.5	5.5	8.0	11.0	9.5	10.5
27	2.5	0.0	0.5	5.5	0.5	2.5	15.5	5.5	10.0	10.0	8.5	9.5
28	4.0	0.0	1.5	6.0	0.5	2.5	16.5	8.0	12.0	12.5	8.0	10.5
29	---	---	---	2.0	0.5	1.0	19.0	10.5	14.5	10.5	9.0	10.0
30	---	---	---	1.5	0.5	1.0	17.0	13.0	14.5	14.0	9.5	11.0
31	---	---	---	3.0	1.5	2.5	---	---	---	14.5	11.0	12.5
MONTH	4.0	0.0	0.5	10.5	0.0	3.0	19.0	0.5	8.5	21.5	6.0	12.0

01096910 BOULDER BROOK AT EAST BOLTON, MASS.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974.--Continued

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	14.5	12.5	13.0	24.5	15.0	19.0	24.0	14.0	18.5	21.5	16.0	18.0
2	15.0	11.5	13.0	23.5	14.0	18.0	24.0	14.0	18.5	15.5	14.0	15.0
3	18.0	10.0	13.5	22.5	17.0	19.0	24.0	17.5	20.5	14.5	13.5	14.0
4	19.5	10.5	14.5	27.0	17.0	21.5	25.5	18.0	21.0	15.0	13.5	14.0
5	22.0	13.0	17.0	22.0	17.5	19.0	23.0	17.0	20.0	---	---	---
6	19.5	12.0	16.0	23.0	16.5	19.0	23.0	14.0	18.0	15.5	10.5	13.0
7	20.0	10.5	14.0	24.5	15.5	19.5	20.0	13.0	16.5	14.0	12.0	13.0
8	21.0	10.0	15.0	25.5	17.5	20.5	24.0	13.0	18.0	19.5	11.0	14.5
9	24.5	14.0	18.5	27.0	17.5	21.5	19.0	15.0	17.0	20.0	12.5	15.5
10	25.5	16.0	20.0	27.5	18.5	21.5	21.0	11.5	15.5	21.0	12.0	16.0
11	21.5	14.5	17.0	23.5	14.5	18.5	21.5	10.0	15.0	20.5	14.0	16.5
12	19.5	12.5	15.0	23.5	13.5	18.0	22.5	11.0	16.0	22.5	8.5	16.5
13	23.0	11.5	16.0	26.5	13.5	19.0	22.0	11.0	16.0	---	---	---
14	22.0	11.0	15.5	27.5	16.5	21.0	22.5	11.5	17.0	---	---	---
15	23.5	11.0	16.5	26.5	18.0	21.0	22.0	12.5	16.5	---	---	---
16	16.5	14.5	15.0	23.0	16.0	19.0	21.5	11.0	16.0	---	---	---
17	19.0	15.0	17.0	25.5	13.5	18.5	19.5	13.5	17.0	17.0	12.0	15.0
18	21.5	15.5	18.0	25.5	15.0	19.0	22.5	16.0	18.5	17.5	11.5	14.0
19	22.0	14.0	17.5	24.5	16.0	19.5	22.5	13.5	18.0	18.0	12.5	15.0
20	22.0	15.0	18.0	23.0	14.5	18.0	22.5	14.0	18.0	20.0	13.5	16.5
21	19.5	15.5	17.0	24.0	11.5	17.0	23.0	14.5	18.5	17.0	14.5	15.5
22	21.5	15.0	18.0	25.5	11.5	17.5	22.5	13.5	18.0	17.0	12.5	14.5
23	17.0	14.0	16.0	24.0	13.0	18.0	20.0	16.5	18.5	15.0	9.0	12.0
24	22.5	13.0	16.5	19.0	12.0	15.5	22.5	16.0	19.0	13.5	7.0	9.5
25	15.0	13.0	14.0	22.5	13.5	17.0	21.5	15.0	17.5	13.5	6.0	9.5
26	14.0	12.5	13.0	22.0	12.5	17.0	19.5	13.5	16.5	14.0	8.5	11.0
27	15.5	12.0	13.5	22.5	14.0	18.0	21.5	16.0	18.5	17.0	8.5	12.0
28	20.5	10.5	14.5	21.5	15.5	18.0	23.0	18.0	20.0	17.0	10.0	13.5
29	18.5	13.0	15.0	20.5	15.5	17.5	18.5	15.5	17.0	17.5	15.5	16.0
30	23.0	13.5	17.5	22.5	14.5	18.0	17.0	15.0	16.0	15.5	11.0	13.0
31	---	---	---	24.5	14.0	18.5	21.5	12.5	16.5	---	---	---
MONTH	25.5	10.0	16.0	27.5	11.5	19.0	25.5	10.0	17.5	22.5	6.0	14.0
YEAR	27.5	0.0	9.0									

01097300 NASHOBA BROOK NEAR ACTON, MASS.

LOCATION.--Lat 42°30'39", long 71°24'25", Middlesex County, two-parameter monitor at gaging station on right bank 1,500 ft (450 m) downstream from dam at North Acton, 2.2 mi (3.5 km) northeast of Acton, and 5 mi (8 km) above mouth.

DRAINAGE AREA.--12.7 mi² (32.9 km²).

PERIOD OF RECORD.--Chemical analyses: October 1971 to current year.
Water temperatures: November 1971 to current year.

EXTREMES.--Current year:
Specific conductance: Maximum, 307 micromhos Sept. 5; minimum, 75 micromhos Jan. 18.
Water temperatures: Maximum, 27.0°C July 10; minimum, freezing point on many days during winter period.

Period of record:
Specific conductance: Maximum, 371 micromhos May 13, 1972; minimum, 71 micromhos Apr. 2, 1973.
Water temperatures: Maximum, 27.0°C Sept. 3, 1973, July 10, 1974; minimum, freezing point on many days during winter periods.

REMARKS.--Recording air-temperature gage located at station since January 1973.

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMHER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	184	182	183	179	173	176	153	147	150	138	129	133
2	183	181	182	173	170	172	155	147	153	155	139	148
3	182	181	182	173	170	172	161	151	156	156	146	158
4	182	180	181	178	171	175	162	158	160	148	145	146
5	181	176	178	180	175	177	162	158	160	156	121	143
6	176	174	175	180	177	178	154	144	149	167	127	160
7	174	172	173	181	177	179	145	136	141	164	133	155
8	177	173	175	182	178	181	139	136	137	167	115	152
9	180	176	178	182	180	181	141	134	139	136	115	127
10	183	179	181	183	181	182	138	130	135	169	134	155
11	184	182	183	187	182	184	130	125	126	168	162	165
12	185	182	183	190	187	187	133	126	129	163	125	148
13	185	183	184	189	187	188	144	123	136	159	88	119
14	185	183	184	189	185	188	147	125	138	169	85	131
15	185	183	183	186	183	185	124	118	122	168	164	166
16	183	180	182	187	185	186	120	113	117	164	152	160
17	182	179	181	187	184	186	125	77	104	139	95	120
18	180	178	179	188	185	186	116	76	103	159	75	112
19	178	177	178	188	186	187	117	96	108	170	160	166
20	177	175	176	189	186	188	125	118	122	202	108	158
21	175	173	174	190	188	189	129	89	115	225	194	214
22	174	169	172	189	181	185	112	85	100	190	170	177
23	177	171	174	187	185	185	111	104	107	191	177	186
24	180	175	177	187	184	185	126	112	118	186	172	176
25	180	180	180	185	181	184	139	105	126	175	169	172
26	182	181	181	183	180	182	143	131	139	172	167	169
27	183	181	182	182	176	179	129	96	106	167	131	150
28	183	181	182	175	167	171	105	99	100	138	130	134
29	183	180	183	167	152	161	117	97	109	135	126	129
30	179	151	167	151	145	147	124	118	121	138	133	135
31	193	171	183	---	---	---	129	124	127	143	137	139
MONTH	193	151	179	190	145	180	162	76	128	225	75	152

01097300 NASHOBA BROOK NEAR ACTON, MASS.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974.--Continued

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	147	141	145	143	139	141	132	127	129	150	140	144
2	151	146	149	141	140	141	129	127	128	142	140	141
3	153	151	152	142	141	142	133	126	129	141	140	141
4	156	152	153	143	139	141	135	134	134	144	139	141
5	159	155	158	144	138	141	139	135	137	148	144	147
6	166	159	163	144	142	143	140	139	139	148	146	147
7	163	158	161	144	142	143	142	140	141	150	148	149
8	159	156	157	146	145	145	144	142	143	153	150	152
9	158	155	156	147	146	147	144	131	137	157	152	153
10	160	154	156	148	146	147	154	127	135	154	145	151
11	163	157	160	151	145	149	160	151	155	145	141	143
12	161	158	159	151	148	150	160	146	152	143	130	142
13	160	157	158	155	148	151	147	144	145	128	109	115
14	159	153	157	158	151	155	144	141	142	120	109	114
15	167	155	162	156	152	154	140	132	135	133	120	126
16	174	163	169	153	145	151	136	135	136	141	133	138
17	173	169	171	142	112	121	141	137	139	144	140	143
18	168	164	166	116	109	112	146	142	144	149	143	146
19	172	164	167	126	116	122	150	147	148	148	147	147
20	160	127	139	135	126	131	150	148	149	149	146	148
21	136	133	134	137	93	121	151	149	150	150	148	149
22	138	118	132	109	92	102	153	151	153	153	149	151
23	118	113	115	111	104	107	155	148	152	152	150	151
24	128	118	123	120	112	116	147	139	142	156	146	152
25	135	128	132	127	119	123	139	137	138	147	134	140
26	140	135	138	133	122	128	141	138	139	133	129	131
27	144	135	141	135	132	133	144	141	143	131	129	130
28	145	141	144	137	131	135	147	145	146	135	131	133
29	---	---	---	141	132	136	151	147	149	137	135	136
30	---	---	---	141	136	139	153	150	152	140	137	138
31	---	---	---	135	124	128	---	---	---	140	138	139
MONTH	174	113	151	158	92	135	160	126	142	157	109	141

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	140	129	135	159	154	156	159	155	156	157	146	148
2	127	117	120	159	156	158	158	157	158	151	143	146
3	126	119	123	159	155	157	159	157	158	177	151	161
4	134	126	130	156	153	155	157	155	156	251	180	213
5	137	134	136	155	135	152	159	157	158	307	265	301
6	141	137	139	149	142	146	159	154	157	301	287	296
7	145	140	142	145	140	142	154	151	152	286	234	251
8	148	143	145	152	145	148	158	151	153	246	229	239
9	151	146	148	157	152	154	159	156	158	252	246	248
10	160	148	150	159	156	157	156	154	155	252	244	249
11	152	150	151	158	157	158	157	155	155	244	224	235
12	152	151	151	159	157	158	159	157	157	222	214	219
13	154	151	153	159	157	158	159	155	158	215	200	210
14	156	153	155	160	157	158	161	155	158	200	192	195
15	158	155	156	159	158	158	161	156	158	198	191	193
16	157	146	155	158	148	154	159	154	156	213	198	207
17	152	137	144	151	145	148	157	156	157	214	211	212
18	137	132	134	163	150	155	157	151	154	211	201	204
19	136	132	134	169	162	166	157	153	155	201	192	195
20	139	135	137	168	166	167	155	152	154	193	186	189
21	143	139	141	166	165	166	156	153	154	184	162	180
22	150	143	147	167	165	166	157	153	155	170	152	160
23	155	149	151	168	166	167	155	145	150	204	172	193
24	159	154	157	167	166	166	146	142	144	216	204	211
25	159	150	154	166	165	165	145	142	144	217	213	216
26	151	150	150	165	162	164	146	144	145	212	204	208
27	150	147	148	164	162	162	151	148	149	204	197	199
28	151	147	149	162	159	161	153	148	150	197	189	194
29	154	151	152	159	158	159	148	142	145	188	100	132
30	156	153	154	158	157	157	155	138	143	113	98	106
31	---	---	---	157	156	156	166	156	162	---	---	---
MONTH	160	117	145	169	135	158	166	138	154	307	98	204
YEAR	307	75	156									

MERRIMACK RIVER BASIN

01097300 NASHOBA BROOK NEAR ACTON, MASS.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	15.0	12.5	13.5	10.5	9.5	10.0	4.5	3.0	4.0	1.0	0.0	0.5
2	14.5	12.0	13.5	9.5	8.0	9.0	2.5	1.5	2.5	0.5	0.0	0.5
3	16.0	14.0	15.0	9.0	8.0	8.5	2.5	1.5	2.0	0.5	0.0	0.0
4	17.5	15.0	16.0	8.0	6.5	7.0	2.5	1.5	2.0	0.5	0.0	0.0
5	16.0	15.0	16.0	6.0	4.5	5.5	4.0	2.0	2.5	0.5	0.0	0.0
6	16.0	13.5	14.5	4.5	3.5	4.0	7.5	4.5	6.5	0.5	0.0	0.0
7	14.5	12.5	13.5	4.5	3.0	3.5	6.5	5.0	6.0	0.5	0.0	0.0
8	14.0	11.0	12.0	4.0	3.0	3.5	4.5	2.5	3.5	0.5	0.0	0.0
9	13.5	10.5	12.0	4.0	3.0	3.5	4.0	2.5	3.0	0.0	0.0	0.0
10	11.5	10.5	11.0	3.5	2.0	2.5	6.0	4.0	5.0	0.5	0.5	0.5
11	12.5	9.5	11.0	4.0	2.0	2.5	5.5	3.5	5.0	0.5	0.0	0.5
12	12.5	9.5	11.0	4.0	3.0	3.5	3.5	2.0	3.0	0.5	0.0	0.5
13	13.0	10.0	11.5	3.5	2.5	3.0	2.0	0.5	1.0	0.5	0.5	0.5
14	14.0	12.0	13.0	5.5	3.0	4.0	3.0	1.0	2.0	0.5	0.0	0.5
15	14.0	11.5	12.5	6.0	4.5	5.5	3.0	2.0	2.5	0.5	0.5	0.5
16	12.5	11.0	11.5	7.0	5.5	6.5	2.0	0.0	1.0	0.5	0.5	0.5
17	11.0	9.5	10.0	5.5	4.5	4.5	0.5	0.0	0.0	0.5	0.5	0.5
18	10.0	9.0	9.5	5.0	4.0	4.5	0.0	0.0	0.0	0.5	0.0	0.0
19	10.5	8.0	9.0	5.5	3.5	4.5	0.0	0.0	0.0	0.5	0.5	0.5
20	9.5	9.0	9.0	5.0	3.0	3.5	0.0	0.0	0.0	0.5	0.5	0.5
21	10.0	7.5	8.5	4.5	3.0	3.5	1.5	0.0	0.5	0.5	0.5	0.5
22	10.5	7.0	8.5	5.5	4.0	4.5	1.0	0.0	0.5	0.5	0.5	0.5
23	10.5	7.5	8.5	5.0	4.5	5.0	0.0	0.0	0.0	0.5	0.5	0.5
24	12.0	8.0	10.0	6.0	4.0	5.0	0.0	0.0	0.0	0.5	0.0	0.0
25	11.5	11.0	11.0	6.5	5.5	6.0	0.0	0.0	0.0	0.5	0.0	0.0
26	11.0	10.0	10.5	6.5	5.0	6.0	0.5	0.0	0.0	0.5	0.0	0.0
27	11.5	9.5	10.0	5.5	5.5	5.5	1.5	0.0	1.0	1.0	0.0	0.5
28	9.5	7.5	8.5	5.5	5.0	5.0	2.0	1.5	2.0	1.0	0.0	0.5
29	8.5	7.5	7.5	6.0	5.0	5.5	2.5	1.5	2.0	3.0	1.0	2.0
30	10.5	8.5	10.0	5.5	4.5	5.0	3.5	1.5	2.5	3.5	1.5	2.5
31	11.0	10.0	10.5	---	---	---	1.5	0.0	0.5	4.0	1.5	2.5
MONTH	17.5	7.0	11.5	10.5	2.0	5.0	7.5	0.0	2.0	4.0	0.0	0.5

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	3.0	[illegible]	1.0	3.0	1.0	2.0	6.5	2.0	4.0	18.5	15.5	16.5
2	0.0	[illegible]	0.0	3.0	1.5	2.0	6.0	5.0	5.5	15.0	11.5	13.5
3	0.0	[illegible]	0.0	2.5	2.0	2.5	10.5	3.5	7.0	13.0	10.5	11.5
4	0.0	0.0	0.0	5.5	2.0	3.5	13.5	9.5	11.0	13.5	10.0	11.5
5	0.0	0.0	0.0	8.5	5.5	7.0	13.5	12.5	13.0	14.0	10.0	12.0
6	0.0	0.0	0.0	9.0	5.0	7.0	12.0	8.0	10.0	12.5	11.0	11.5
7	0.0	0.0	0.0	10.5	6.0	8.0	10.0	5.0	8.0	11.5	10.5	11.0
8	0.0	0.0	0.0	9.0	6.0	7.0	9.5	7.5	8.5	15.0	9.0	12.0
9	0.0	0.0	0.0	5.5	3.5	4.5	8.0	1.0	3.5	14.0	11.5	13.0
10	0.0	0.0	0.0	5.5	2.5	3.5	2.5	0.0	1.0	13.0	10.5	11.5
11	0.0	0.0	0.0	4.0	1.0	2.5	8.0	1.0	4.0	14.0	9.5	11.5
12	0.0	0.0	0.0	4.0	1.0	2.5	8.5	5.0	7.0	13.0	11.5	12.0
13	0.0	0.0	0.0	2.5	0.0	1.0	8.0	6.0	7.0	14.0	11.0	12.5
14	0.0	0.0	0.0	4.0	0.0	1.5	11.0	5.5	7.5	16.5	12.0	14.0
15	0.0	0.0	0.0	5.0	1.0	2.5	12.5	10.5	11.5	20.5	15.0	17.5
16	0.0	0.0	0.0	4.0	3.0	3.0	12.5	9.0	11.0	22.5	18.0	20.0
17	0.0	0.0	0.0	5.5	4.0	5.0	12.5	9.5	11.0	23.0	18.0	20.0
18	0.0	0.0	0.0	4.0	2.0	3.0	13.5	10.5	12.0	22.0	18.0	20.0
19	0.0	0.0	0.0	5.0	2.0	3.5	12.5	11.0	12.0	20.5	16.5	18.5
20	0.0	0.0	0.0	7.0	2.5	4.5	12.0	8.5	10.0	18.5	14.5	16.5
21	0.5	0.0	0.0	5.0	1.5	2.5	14.0	9.5	11.5	16.0	13.5	14.5
22	0.5	0.0	0.0	2.5	0.0	1.5	15.0	13.0	14.0	19.0	13.0	16.0
23	0.5	0.0	0.5	4.0	1.5	2.5	15.5	14.5	15.0	16.0	13.0	14.5
24	1.0	0.0	0.0	6.0	4.0	5.0	14.5	9.5	12.0	13.0	11.5	12.0
25	0.5	0.0	0.0	4.5	1.0	3.0	10.5	7.5	9.0	13.5	11.0	12.5
26	1.5	0.0	0.5	3.5	0.5	2.0	10.5	8.5	9.5	13.0	11.0	12.0
27	1.5	0.0	0.5	5.0	0.5	3.0	13.0	8.0	10.5	11.0	10.0	10.5
28	2.0	0.0	1.0	5.0	1.0	3.0	14.5	11.0	13.0	13.0	9.5	11.0
29	---	---	---	2.5	0.0	1.5	18.5	13.0	15.5	12.0	11.0	11.5
30	---	---	---	1.5	0.5	1.0	18.5	16.0	17.5	13.5	10.5	12.0
31	---	---	---	2.5	1.5	2.0	---	---	---	15.5	12.0	13.5
MONTH	3.0	0.0	0.0	10.5	0.0	3.5	18.5	0.0	9.5	23.0	9.0	13.5

01097300 NASHOBA BROOK NEAR ACTON, MASS.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974.--Continued

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	16.0	14.5	15.0	23.5	19.5	21.5	25.0	21.5	23.5	24.5	20.0	22.0
2	16.0	14.0	15.0	22.5	20.5	22.0	25.0	21.5	23.0	23.5	17.0	19.5
3	17.5	13.0	15.5	23.5	21.5	22.5	26.0	23.5	24.5	17.0	15.5	16.5
4	19.5	14.5	17.0	25.0	22.0	23.5	26.5	24.0	25.5	15.5	14.0	15.0
5	22.0	16.0	18.5	24.5	21.5	23.5	26.0	23.0	24.5	19.5	12.5	15.5
6	21.0	18.0	19.5	24.0	20.5	22.0	24.5	21.0	23.0	17.0	13.0	15.0
7	19.5	15.5	17.5	24.0	20.0	22.0	23.5	20.5	21.5	15.5	14.0	14.5
8	21.0	15.0	17.5	25.0	22.0	23.5	24.5	19.0	21.5	19.0	13.0	15.5
9	23.0	17.5	20.5	25.5	23.0	24.0	24.5	21.0	22.0	19.0	15.5	17.0
10	24.0	21.0	22.5	27.0	24.0	25.5	21.5	18.0	20.0	21.5	16.5	19.0
11	23.5	20.5	21.5	25.5	22.0	23.5	22.5	17.5	20.0	22.0	17.0	19.0
12	21.5	18.5	19.5	23.5	20.0	22.0	23.0	18.0	20.5	24.0	18.5	21.0
13	21.0	17.0	19.0	24.5	20.0	22.0	26.0	18.5	21.5	24.5	20.5	22.5
14	20.0	17.5	19.0	26.5	21.5	24.0	24.5	20.0	22.0	23.0	20.0	21.5
15	21.5	18.0	19.5	26.5	23.5	25.0	23.0	19.5	21.5	19.5	16.5	18.0
16	20.5	18.5	19.5	25.5	22.5	23.5	22.0	18.0	20.0	19.0	15.5	17.5
17	20.0	17.5	18.5	24.5	19.5	22.0	21.5	19.5	21.0	18.5	14.5	16.5
18	21.5	19.0	20.0	23.5	20.5	22.0	23.0	21.0	22.0	19.5	16.0	18.0
19	21.5	19.5	20.5	24.0	21.5	23.0	24.0	20.5	22.0	19.5	16.5	18.0
20	22.0	19.5	21.0	23.5	21.0	22.5	24.0	21.0	22.5	21.5	17.5	19.5
21	21.5	20.5	21.0	22.5	19.5	21.0	24.5	21.5	23.0	21.0	18.0	19.0
22	22.5	19.5	20.5	23.5	19.5	21.5	24.5	21.0	22.5	19.0	16.0	17.5
23	21.0	19.0	19.5	23.0	20.5	21.5	23.5	22.5	23.0	17.0	13.5	15.5
24	22.0	17.5	19.5	21.5	19.5	20.5	24.0	22.0	23.0	14.5	11.5	13.5
25	20.0	16.5	18.5	22.0	19.0	20.5	23.5	20.5	22.0	13.0	10.5	12.0
26	16.5	15.5	16.0	23.0	18.5	20.5	22.0	19.5	20.5	15.0	11.5	13.0
27	16.5	15.0	15.5	22.5	19.5	21.0	22.0	20.0	21.0	16.0	12.0	14.0
28	18.0	14.5	16.0	22.5	20.5	21.5	23.5	21.5	22.5	17.5	14.5	15.5
29	18.0	17.0	17.5	22.5	21.0	21.5	22.5	18.5	20.5	19.0	16.5	17.5
30	20.0	17.5	18.5	23.0	20.0	21.5	18.5	17.5	17.5	17.5	15.0	16.5
31	---	---	---	25.5	20.5	22.5	23.0	15.5	18.5	---	---	---
MONTH	24.0	13.0	18.5	27.0	18.5	22.5	26.5	15.5	22.0	24.5	10.5	17.0
YEAR	27.0	0.0	10.5									

01100750 MERRIMACK RIVER AT WEST NEWBURY, MASS.

LOCATION.--Lat 42°48'38", long 71°00'02", Essex County, multiple-parameter monitor at Bridge Street Bridge, 0.9 mi (1.4 km) northwest of West Newbury.

PERIOD OF RECORD.--Chemical analyses: October 1968 to current year (no winter records in water year 1973).
Water temperatures: October 1968 to current year (no winter records in water year 1973).

EXTREMES.--Current year:
Specific conductance: Maximum, greater than 1,000 micromhos Aug. 19; minimum, 51 micromhos Apr. 10.
pH: Maximum, 8.4 July 14; minimum, 4.9 Oct. 30.
Dissolved oxygen: Maximum, 18.1 mg/l Dec. 19; minimum, 0 mg/l Aug. 30, 31.
Water temperatures: Maximum, 28.5°C July 15; minimum, freezing point on many days during winter period.

Period of record:
Specific conductance: Maximum, greater than 1,000 micromhos Aug. 17, 18, 20, 1970, Sept. 7, Oct. 4, 6, 7, 1971, Aug. 19, 1973; minimum, 40 micromhos July 2, 1973.
pH: Maximum, 8.6 Oct. 10, 1970; minimum, 4.9 Oct. 30, 1973.
Dissolved oxygen: Maximum, 18.2 mg/l Apr. 9, 1971; minimum, 0 mg/l Aug. 30, 31, 1974.
Water temperatures: Maximum, 29.5°C July 29, 1970; minimum, freezing point on many days during winter periods.

REMARKS.--Additional chemical analyses for this station in table of samples collected at miscellaneous sites.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	152	140	144	142	132	138	134	122	127	68	66	67
2	148	138	143	135	127	133	151	130	142	71	66	69
3	148	142	145	128	117	123	171	126	146	73	70	72
4	145	140	143	125	115	121	194	102	138	77	73	75
5	146	142	144	115	107	111	112	103	107	84	77	80
6	147	142	145	112	109	111	116	104	110	88	83	86
7	149	142	145	117	110	114	117	108	112	92	89	90
8	159	145	149	123	111	118	114	102	108	99	92	94
9	---	---	---	126	116	121	101	95	99	101	99	100
10	---	---	---	128	118	125	97	91	94	102	100	101
11	---	---	---	140	125	130	98	94	96	103	100	102
12	---	---	---	142	124	132	98	92	96	104	102	103
13	---	---	---	156	127	134	95	86	90	104	102	103
14	---	---	---	161	129	135	100	86	92	107	100	104
15	---	---	---	158	127	136	91	86	88	115	100	109
16	161	140	145	147	133	137	85	73	78	120	114	116
17	162	138	143	146	135	138	117	75	87	116	113	114
18	149	138	142	149	140	147	99	81	87	118	114	116
19	148	140	142	149	141	145	85	72	75	127	117	120
20	151	141	145	145	134	138	---	---	---	161	125	147
21	171	143	147	141	124	131	94	85	89	149	131	137
22	161	144	148	140	131	134	102	85	93	170	128	148
23	162	144	149	142	131	136	84	67	74	168	145	155
24	166	145	151	142	131	137	73	55	62	193	144	170
25	191	142	151	141	127	134	57	54	56	167	134	148
26	188	142	149	138	125	129	59	53	56	134	127	130
27	164	142	147	139	127	131	73	59	67	130	122	126
28	185	143	149	141	133	138	75	72	74	---	---	---
29	164	144	150	142	134	139	72	67	70	114	101	107
30	153	145	150	142	132	138	67	65	66	101	91	96
31	148	135	144	---	---	---	67	65	67	92	87	89
MONTH	---	---	---	161	107	131	194	53	92	193	66	109

01100750 MERRIMACK RIVER AT WEST NEWBURY, MASS.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974.--Continued

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	93	88	91	126	117	121	112	95	109	89	86	88
2	93	91	92	128	124	126	113	96	109	89	83	86
3	95	92	93	130	124	128	112	100	109	84	79	81
4	99	94	96	127	118	134	107	100	104	84	78	81
5	---	---	---	122	119	120	102	95	97	79	76	77
6	---	---	---	121	118	119	95	82	89	80	75	78
7	---	---	---	119	100	112	83	70	75	86	79	82
8	---	---	---	108	97	102	70	64	66	88	84	86
9	---	---	---	98	89	94	78	64	68	91	87	89
10	---	---	---	91	85	87	83	51	77	95	90	92
11	---	---	---	87	85	86	89	85	87	96	91	94
12	---	---	---	93	87	90	96	89	91	91	84	88
13	---	---	---	101	93	96	92	90	91	84	77	80
14	---	---	---	105	100	102	93	90	91	78	73	76
15	---	---	---	111	100	107	97	91	93	73	65	68
16	---	---	---	116	111	114	91	74	84	69	64	66
17	---	---	---	115	111	114	74	68	70	70	68	69
18	---	---	---	114	89	102	69	64	66	76	69	73
19	---	---	---	88	79	82	69	65	66	78	76	77
20	167	152	157	81	77	79	72	68	70	79	76	77
21	155	145	150	92	81	83	73	71	72	82	77	79
22	157	142	148	94	90	92	77	73	75	87	80	84
23	152	139	144	---	---	---	82	76	79	92	86	89
24	140	123	130	101	95	98	85	80	83	99	91	96
25	124	113	117	98	93	95	83	72	77	101	98	100
26	114	110	112	97	90	94	72	66	69	102	85	94
27	112	110	111	98	93	97	72	67	69	85	79	82
28	118	111	114	100	97	99	76	72	73	80	72	75
29	---	---	---	104	100	102	83	76	79	72	69	70
30	---	---	---	109	104	106	87	80	84	74	71	73
31	---	---	---	115	107	110	---	---	---	78	74	76
MONTH	---	---	---	130	77	103	113	51	82	102	64	81

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	80	78	79	129	119	125	170	149	153	225	174	181
2	83	80	82	125	113	118	193	150	158	265	175	190
3	86	82	84	119	108	113	178	153	159	283	177	191
4	86	83	85	114	106	109	192	154	160	194	169	179
5	86	84	85	114	107	109	310	151	169	182	156	170
6	91	86	88	113	100	110	194	153	160	167	142	156
7	94	89	92	112	107	110	175	151	157	151	127	138
8	97	93	95	115	107	111	164	151	154	146	130	137
9	101	95	98	116	110	114	159	147	152	136	123	131
10	102	98	100	117	109	113	157	142	149	130	122	126
11	109	99	105	113	105	109	170	137	144	131	125	127
12	114	104	109	114	107	110	166	134	140	141	126	129
13	117	108	112	114	100	110	182	131	141	156	119	127
14	124	111	115	116	108	111	188	131	140	149	120	125
15	127	117	122	117	109	113	229	131	143	208	121	137
16	124	118	122	130	111	114	363	131	151	379	123	161
17	125	122	124	141	112	115	500	132	185	254	127	147
18	127	117	123	130	112	116	833	134	290	258	128	148
19	124	117	121	186	114	125	>1000	137	373	222	129	143
20	123	116	120	301	117	148	946	143	362	179	130	139
21	121	107	113	387	123	167	689	152	274	167	135	139
22	117	101	107	516	126	187	499	156	231	146	136	139
23	116	103	105	359	131	162	532	164	230	144	135	139
24	117	100	106	251	134	154	401	174	207	149	144	147
25	114	103	108	187	136	147	254	179	187	151	141	148
26	119	104	111	175	136	143	434	178	207	144	138	140
27	119	112	116	178	138	144	296	179	196	144	139	142
28	125	117	120	216	137	146	246	181	194	142	136	139
29	130	121	126	194	137	145	238	177	188	139	126	132
30	130	127	128	172	138	148	220	175	185	131	119	127
31	---	---	---	199	146	153	225	173	182	---	---	---
MONTH	130	78	107	516	100	129	>1000	131	191	379	119	146
YEAR	>1000	51	119									

01100750 MERRIMACK RIVER AT WEST NEWBURY, MASS.--Continued

PH (UNITS), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.6	6.1	6.4	6.8	6.5	6.7	6.4	6.3	6.3	7.7	7.3	7.5
2	6.7	6.2	6.4	6.8	6.7	6.8	6.3	6.3	6.3	7.8	7.6	7.7
3	6.3	6.0	6.2	6.9	6.7	6.8	6.4	6.3	6.4	7.8	7.7	7.8
4	6.4	6.0	6.2	6.8	6.6	6.7	6.5	6.5	6.5	7.9	7.8	7.8
5	6.2	6.0	6.1	6.9	6.8	6.8	---	---	---	7.9	7.7	7.8
6	6.2	6.0	6.1	6.7	6.6	6.6	---	---	---	7.9	7.8	7.8
7	6.2	6.0	6.1	6.7	6.5	6.6	---	---	---	7.9	7.6	7.8
8	6.3	6.0	6.1	6.7	6.5	6.6	---	---	---	7.8	7.7	7.8
9	---	---	---	6.7	6.5	6.6	---	---	---	7.8	7.1	7.5
10	---	---	---	6.6	6.4	6.5	---	---	---	7.4	7.3	7.4
11	---	---	---	6.6	6.4	6.5	---	---	---	7.4	7.3	7.3
12	---	---	---	6.7	6.4	6.5	---	---	---	7.4	6.8	7.2
13	---	---	---	6.9	6.5	6.7	---	---	---	7.3	7.1	7.2
14	---	---	---	6.8	6.7	6.7	---	---	---	7.2	6.8	7.0
15	---	---	---	7.0	6.6	6.6	---	---	---	6.9	6.8	6.8
16	---	---	---	6.9	6.2	6.6	---	---	---	6.9	6.8	6.9
17	6.8	6.6	6.7	---	---	---	---	---	---	7.0	6.8	6.8
18	6.7	6.5	6.6	7.2	6.8	7.0	---	---	---	6.8	6.8	6.8
19	6.6	6.4	6.5	7.0	6.4	6.7	---	---	---	6.9	6.8	6.8
20	6.5	6.4	6.5	6.4	6.3	6.3	---	---	---	6.9	6.8	6.8
21	6.6	6.4	6.5	6.3	6.2	6.2	6.4	6.2	6.3	6.9	6.9	6.9
22	6.6	6.4	6.5	6.3	6.2	6.2	6.4	6.2	6.3	6.9	6.9	6.9
23	6.7	6.4	6.6	6.3	6.1	6.2	6.3	6.1	6.2	7.0	6.9	6.9
24	6.7	6.6	6.6	6.3	6.1	6.2	6.3	6.1	6.2	6.9	6.9	6.9
25	6.6	6.5	6.6	6.3	6.1	6.2	6.0	5.7	5.8	7.0	6.9	7.0
26	6.6	6.4	6.5	6.3	6.2	6.2	6.4	6.1	6.2	6.9	6.9	6.9
27	6.6	6.5	6.5	6.3	6.2	6.2	6.5	6.2	6.4	7.0	6.9	6.9
28	6.5	6.4	6.5	6.2	6.1	6.2	6.8	6.5	6.7	---	---	---
29	6.7	6.5	6.6	6.3	6.1	6.3	6.9	6.6	6.7	6.8	6.7	6.7
30	6.6	4.9	6.1	6.4	6.3	6.3	7.2	6.8	7.0	6.8	6.6	6.7
31	6.7	6.3	6.5	---	---	---	7.4	7.2	7.3	6.8	6.7	6.7
MONTH	---	---	---	7.2	6.1	6.5	---	---	---	7.9	6.6	7.2

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	7.2	6.6	6.8	---	---	---	7.0	6.9	6.9	6.9	6.7	6.8
2	7.0	6.9	6.9	---	---	---	7.0	6.7	6.9	6.9	6.7	6.8
3	7.0	6.9	6.9	---	---	---	7.0	6.9	6.9	6.9	6.7	6.8
4	6.9	6.9	6.9	7.3	6.9	7.0	7.0	6.7	6.8	6.9	6.7	6.8
5	---	---	---	7.0	6.9	7.0	6.8	6.6	6.7	7.0	6.8	6.9
6	---	---	---	7.0	6.9	6.9	6.7	6.6	6.7	6.9	6.8	6.9
7	---	---	---	7.0	6.9	7.0	6.7	6.7	6.7	6.9	6.4	6.7
8	---	---	---	7.0	6.8	6.9	6.7	6.7	6.7	7.0	6.6	6.8
9	---	---	---	6.9	6.8	6.9	6.8	6.7	6.8	6.9	6.7	6.8
10	---	---	---	6.9	6.8	6.9	6.9	6.9	6.9	6.8	6.7	6.7
11	---	---	---	6.9	6.8	6.9	7.0	6.9	7.0	6.9	6.6	6.8
12	---	---	---	7.0	6.9	6.9	7.0	5.9	6.8	6.8	6.7	6.7
13	---	---	---	7.3	6.9	7.0	6.9	6.8	6.9	6.7	6.4	6.7
14	---	---	---	7.3	7.0	7.0	7.0	6.8	6.9	7.1	6.8	6.9
15	---	---	---	7.1	7.0	7.1	6.9	6.8	6.9	---	---	---
16	---	---	---	7.2	7.1	7.1	6.8	6.3	6.7	---	---	---
17	---	---	---	7.2	7.1	7.1	6.8	6.2	6.7	---	---	---
18	---	---	---	7.2	7.0	7.1	6.8	6.7	6.7	---	---	---
19	---	---	---	---	---	---	6.8	6.7	6.7	---	---	---
20	7.2	7.2	7.2	---	---	---	6.8	6.7	6.7	---	---	---
21	7.2	7.1	7.2	---	---	---	6.9	6.7	6.8	---	---	---
22	7.1	7.0	7.1	---	---	---	6.8	6.3	6.7	---	---	---
23	7.0	6.8	6.8	---	---	---	6.8	6.6	6.7	---	---	---
24	6.7	6.6	6.6	6.6	6.6	6.6	6.7	6.4	6.5	6.9	6.3	6.6
25	---	---	---	6.6	6.5	6.6	6.6	6.4	6.5	6.5	6.0	6.2
26	---	---	---	6.7	6.6	6.6	6.6	6.5	6.5	6.3	6.1	6.2
27	---	---	---	6.7	6.7	6.7	6.7	6.5	6.6	6.4	6.0	6.2
28	---	---	---	6.8	6.7	6.7	6.8	6.6	6.7	6.5	5.9	6.2
29	---	---	---	6.8	6.7	6.8	6.9	6.7	6.8	6.3	5.8	6.0
30	---	---	---	7.0	6.8	6.8	6.9	6.7	6.8	6.1	5.7	5.9
31	---	---	---	6.9	6.8	6.9	---	---	---	6.7	5.8	6.3
MONTH	---	---	---	---	---	---	7.0	5.9	6.8	---	---	---

01100750 MERRIMACK RIVER AT WEST NEWBURY, MASS.--Continued

PH (UNITS), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974.--Continued

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.5	5.9	6.3	7.1	6.6	6.8	6.9	6.4	6.7	6.7	6.3	6.5
2	6.5	5.9	6.2	6.9	6.6	6.7	7.0	6.5	6.8	6.7	6.6	6.6
3	6.9	6.2	6.6	6.8	6.4	6.6	6.9	6.4	6.6	6.7	6.6	6.6
4	6.8	6.5	6.6	7.1	6.4	6.7	7.0	6.4	6.6	6.6	6.5	6.6
5	6.8	6.5	6.6	6.8	6.4	6.5	7.0	6.3	6.6	6.6	6.5	6.5
6	6.7	6.5	6.6	6.8	6.3	6.5	6.8	6.2	6.5	6.5	6.3	6.4
7	6.8	6.5	6.6	7.1	6.3	6.6	6.7	6.2	6.4	6.4	6.3	6.4
8	6.9	6.5	6.7	7.1	6.4	6.6	6.9	6.2	6.5	6.6	6.4	6.5
9	7.0	6.6	6.8	6.8	6.4	6.6	6.8	6.3	6.4	6.8	6.4	6.6
10	7.1	6.7	6.9	7.1	6.4	6.7	7.0	6.3	6.5	6.9	6.4	6.6
11	7.0	6.7	6.8	7.6	6.4	6.8	7.2	6.4	6.7	6.8	6.4	6.6
12	7.0	6.7	6.8	8.0	6.5	6.9	7.7	6.6	6.9	6.8	6.4	6.6
13	7.0	6.6	6.7	8.3	6.5	7.0	7.8	6.5	6.9	6.7	6.4	6.6
14	7.2	6.6	6.8	8.4	6.6	7.2	7.4	6.4	6.8	6.6	6.4	6.5
15	7.5	6.6	6.9	7.7	6.6	7.1	7.2	6.4	6.8	6.5	6.3	6.4
16	7.0	6.6	6.7	7.0	6.5	6.7	7.1	6.5	6.8	6.5	6.3	6.4
17	6.8	6.5	6.7	7.1	6.3	6.6	6.9	6.4	6.6	6.5	6.2	6.4
18	7.0	6.7	6.8	7.0	6.4	6.7	6.8	6.2	6.5	6.4	6.2	6.3
19	7.0	6.7	6.8	6.9	6.2	6.5	6.9	6.2	6.5	6.3	6.1	6.2
20	7.0	6.6	6.8	6.7	6.2	6.5	6.8	6.2	6.5	6.4	6.1	6.2
21	6.8	6.6	6.7	6.6	5.8	6.2	6.7	6.2	6.4	6.2	6.1	6.2
22	6.8	6.5	6.6	6.7	6.1	6.4	6.7	6.1	6.3	6.4	6.2	6.3
23	6.7	6.3	6.5	6.8	6.4	6.6	6.4	6.2	6.3	6.4	6.3	6.3
24	7.0	6.4	6.7	7.1	6.7	6.9	6.5	6.2	6.3	6.5	6.4	6.4
25	6.9	6.6	6.7	7.1	6.5	6.7	6.5	6.3	6.4	6.5	6.4	6.5
26	6.6	6.5	6.5	7.1	6.5	6.7	6.6	6.4	6.5	6.5	6.3	6.5
27	6.6	6.5	6.6	6.8	6.5	6.6	6.8	6.4	6.6	6.5	6.1	6.3
28	6.9	6.6	6.7	6.7	6.4	6.5	6.7	6.5	6.6	6.2	6.0	6.1
29	6.7	6.5	6.6	6.6	6.4	6.5	6.6	6.3	6.4	6.4	5.7	6.1
30	7.0	6.4	6.7	6.6	6.4	6.5	6.4	6.3	6.4	6.4	6.2	6.3
31	---	---	---	6.7	6.4	6.6	6.5	6.3	6.4	---	---	---
MONTH	7.5	5.9	6.7	8.4	5.8	6.7	7.8	6.1	6.6	6.9	5.7	6.4
YEAR	8.4	4.9	6.7									

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	10.0	7.2	8.7	9.7	7.9	8.7	---	---	---	---	---	---
2	10.4	6.9	8.9	10.6	9.6	10.2	---	---	---	---	---	---
3	7.9	5.6	7.2	11.1	10.0	10.7	---	---	---	---	---	---
4	7.9	5.6	6.6	11.7	10.7	11.2	15.7	12.6	14.3	---	---	---
5	6.2	5.0	5.6	12.1	10.9	11.8	15.6	13.1	14.3	---	---	---
6	6.3	3.8	4.8	11.9	11.1	11.4	15.0	13.4	14.0	---	---	---
7	6.5	4.3	5.2	11.8	10.6	11.2	---	---	---	---	---	---
8	6.3	4.5	5.5	12.1	10.5	11.2	---	---	---	---	---	---
9	---	---	---	11.7	10.5	10.9	---	---	---	---	---	---
10	---	---	---	11.6	10.4	10.9	---	---	---	---	---	---
11	---	---	---	11.9	10.4	11.0	---	---	---	---	---	---
12	---	---	---	12.3	10.0	11.1	---	---	---	---	---	---
13	---	---	---	11.8	10.4	10.9	---	---	---	---	---	---
14	---	---	---	10.7	9.8	10.2	13.8	12.5	12.9	16.8	14.4	16.1
15	---	---	---	10.5	9.5	10.0	14.4	13.0	13.7	16.2	15.6	15.9
16	---	---	---	10.2	9.1	9.5	15.1	14.4	14.8	16.0	15.2	15.6
17	9.5	7.1	8.4	10.1	9.3	9.6	17.5	15.1	16.2	16.9	15.7	16.3
18	8.7	7.3	8.1	10.8	8.0	9.3	17.9	16.1	17.2	16.5	15.9	16.3
19	8.5	7.0	7.7	12.7	9.5	10.8	18.1	17.7	17.9	15.5	14.9	15.1
20	7.5	6.1	6.8	13.1	11.4	12.1	17.7	16.7	17.5	15.0	14.6	14.8
21	6.9	5.3	6.1	13.2	11.0	11.9	16.8	15.9	16.3	14.7	14.2	14.5
22	7.0	5.4	6.1	12.0	10.4	11.0	---	---	---	13.9	13.3	13.6
23	8.6	6.0	7.6	11.7	10.0	10.7	---	---	---	13.6	13.1	13.3
24	8.7	7.3	8.1	12.6	10.1	11.2	---	---	---	13.6	13.0	13.4
25	8.1	6.3	7.4	12.0	10.2	11.0	---	---	---	14.2	12.2	13.4
26	7.1	5.7	6.5	12.7	10.7	11.5	---	---	---	14.1	13.2	13.7
27	6.9	5.5	6.2	12.6	10.7	11.5	---	---	---	13.5	12.5	12.9
28	7.1	6.0	6.5	11.8	10.3	10.9	---	---	---	---	---	---
29	8.5	6.0	6.7	12.4	10.4	11.1	---	---	---	13.5	12.8	13.2
30	8.8	6.9	8.0	---	---	---	---	---	---	13.6	13.2	13.4
31	9.2	7.0	7.7	---	---	---	---	---	---	13.4	12.8	13.1
MONTH	---	---	---	13.2	7.9	10.8	---	---	---	---	---	---

01100750 MERRIMACK RIVER AT WEST NEWBURY, MASS.--Continued

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974.--Continued

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	13.2	12.3	12.9	12.4	11.0	11.6	11.2	10.8	11.0	9.4	8.8	9.1
2	13.3	13.0	13.2	11.7	11.2	11.5	10.9	10.6	10.8	10.0	9.3	9.6
3	13.6	13.3	13.4	11.8	11.4	11.7	10.7	10.0	10.4	9.9	9.7	9.4
4	13.5	13.0	13.3	13.3	11.6	12.4	10.7	9.9	10.3	9.9	9.5	9.7
5	---	---	---	13.1	12.3	12.6	10.5	10.2	10.4	10.1	8.6	9.6
6	---	---	---	13.1	12.5	12.8	11.3	10.5	10.9	9.4	7.6	8.6
7	---	---	---	12.9	12.0	12.5	11.9	11.3	11.6	9.9	7.4	8.9
8	---	---	---	13.3	12.2	12.9	12.0	7.9	10.8	10.1	9.7	9.9
9	---	---	---	13.7	13.0	13.4	11.3	4.6	7.1	10.0	9.4	9.7
10	---	---	---	13.7	13.2	13.5	11.8	3.7	7.1	9.3	8.8	9.1
11	---	---	---	13.9	13.3	13.6	12.1	10.0	11.5	---	---	---
12	---	---	---	13.6	13.1	13.4	12.2	11.7	12.0	---	---	---
13	---	---	---	13.4	12.9	13.2	12.0	11.9	11.9	---	---	---
14	---	---	---	13.0	12.2	12.7	11.9	11.2	11.7	---	---	---
15	---	---	---	12.9	12.1	12.6	11.6	11.2	11.5	---	---	---
16	---	---	---	12.8	12.4	12.6	11.7	11.3	11.5	---	---	---
17	---	---	---	12.8	12.2	12.5	12.0	10.1	11.4	---	---	---
18	---	---	---	13.4	12.8	13.1	11.0	10.0	10.6	---	---	---
19	---	---	---	---	---	---	10.8	10.2	10.6	---	---	---
20	13.6	11.3	13.0	---	---	---	10.8	9.9	10.4	---	---	---
21	14.4	13.7	14.0	---	---	---	10.7	9.8	10.4	---	---	---
22	14.7	14.3	14.5	---	---	---	10.1	9.6	9.9	---	---	---
23	14.7	14.1	14.4	---	---	---	9.9	9.5	9.6	---	---	---
24	---	---	---	12.8	12.3	12.5	10.5	9.5	9.9	7.7	6.8	7.3
25	---	---	---	13.1	12.6	12.9	10.9	10.2	10.7	8.1	7.3	7.6
26	---	---	---	12.7	12.4	12.6	11.0	10.6	10.8	8.9	7.0	8.4
27	13.4	12.1	12.7	12.6	12.1	12.4	11.1	10.3	10.8	9.3	8.8	9.1
28	13.0	12.1	12.6	12.3	12.0	12.2	10.6	9.8	10.4	9.4	9.0	9.3
29	---	---	---	12.1	11.6	12.0	10.3	9.5	9.9	9.3	9.0	9.2
30	---	---	---	11.8	11.4	11.6	9.5	9.2	9.4	9.2	8.7	9.0
31	---	---	---	11.3	11.0	11.2	---	---	---	9.1	8.6	8.8
MONTH	---	---	---	13.9	11.0	12.5	12.2	3.7	10.5	---	---	---

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	8.8	8.1	8.5	8.5	6.7	7.4	6.7	2.0	4.5	3.1	0.3	1.7
2	8.6	8.1	8.4	8.4	6.3	7.4	6.6	2.9	5.0	3.0	0.9	2.0
3	8.8	7.9	8.3	8.1	6.0	6.7	6.5	2.5	4.7	2.7	0.8	2.0
4	8.3	7.7	8.0	8.2	6.0	7.2	6.8	2.8	5.0	4.1	2.2	2.6
5	7.9	7.3	7.7	8.0	5.6	6.6	7.1	3.6	5.3	6.0	1.8	3.6
6	8.0	7.3	7.6	7.1	5.2	6.1	6.5	3.1	4.9	7.6	3.4	4.9
7	8.1	7.2	7.6	8.2	5.7	6.9	6.3	2.5	4.3	8.0	5.4	6.5
8	8.1	7.0	7.5	8.5	6.3	7.2	6.2	2.4	4.3	8.9	6.5	7.3
9	8.0	6.0	7.2	7.4	5.2	6.4	6.1	2.9	4.2	9.0	7.3	8.2
10	8.2	6.5	7.4	8.2	5.8	6.9	6.6	2.7	4.2	8.9	6.6	7.9
11	7.7	5.7	6.8	8.9	6.5	7.6	6.9	3.0	4.8	8.4	6.3	7.1
12	7.5	5.4	6.3	9.1	6.8	7.8	7.6	4.9	6.1	7.0	5.5	6.4
13	7.4	5.4	6.3	9.0	6.9	7.9	8.1	4.4	6.3	7.1	5.1	6.2
14	8.3	5.0	6.8	9.1	7.1	8.1	7.8	3.7	6.0	7.0	4.8	5.9
15	8.7	5.6	6.9	8.8	6.8	7.9	7.3	2.8	5.5	6.8	4.6	5.7
16	8.0	5.1	6.4	8.2	6.5	7.1	7.0	3.7	5.7	7.2	4.9	6.1
17	6.3	4.0	4.9	8.2	4.9	6.7	6.7	3.7	5.4	7.4	5.3	6.4
18	6.0	4.4	5.3	8.1	5.7	7.1	6.0	3.2	4.9	6.5	4.6	5.8
19	6.7	4.6	5.7	7.5	4.7	6.0	6.4	3.4	4.9	5.6	3.8	4.9
20	6.7	4.9	5.7	6.9	4.3	5.6	6.4	3.4	4.8	4.7	2.9	4.0
21	6.7	5.3	5.9	7.5	4.4	6.2	6.0	2.6	4.2	3.5	2.2	2.9
22	7.0	4.8	5.8	8.0	5.2	6.5	6.0	2.6	4.2	3.6	2.1	2.9
23	6.4	4.5	5.6	7.7	4.8	6.3	5.2	2.6	4.3	4.8	2.7	3.5
24	7.3	4.7	5.9	7.8	4.7	6.1	5.4	1.0	3.0	5.6	3.7	4.5
25	6.9	4.1	5.8	7.5	4.0	5.7	4.3	1.0	2.7	6.7	4.7	5.8
26	4.8	1.9	2.9	7.6	3.6	5.4	5.4	3.3	4.4	7.3	5.7	6.4
27	5.6	2.1	3.4	7.0	3.7	5.1	6.0	1.3	4.2	7.1	5.4	6.4
28	7.0	4.8	5.7	6.0	3.4	4.5	4.9	2.5	3.8	6.4	5.2	5.8
29	6.5	5.3	5.8	4.9	3.3	4.1	3.9	0.7	1.7	6.2	5.2	5.7
30	7.6	5.3	6.4	4.8	2.4	3.6	1.9	0.0	0.8	8.2	5.5	6.9
31	---	---	---	5.5	1.6	3.7	1.7	0.0	1.1	---	---	---
MONTH	8.8	1.9	6.4	9.1	1.6	6.4	8.1	0.0	4.4	9.0	0.3	5.2
YEAR	10.1	0.0	8.8									

01100750 MERRIMACK RIVER AT WEST NEWBURY, MASS.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	18.0	17.0	17.5	11.5	10.5	11.0	5.5	4.5	5.0	1.0	0.5	1.0
2	18.0	17.0	17.5	11.0	10.0	10.5	4.5	4.0	4.0	0.5	0.5	0.5
3	18.0	17.5	17.5	10.5	9.5	10.0	4.0	3.5	3.5	0.5	0.0	0.5
4	19.0	17.5	18.0	9.5	9.0	9.0	4.0	3.5	3.5	0.5	0.5	0.5
5	18.5	18.0	18.5	8.5	8.0	8.5	4.5	3.5	3.5	0.5	0.0	0.0
6	18.0	17.0	17.5	8.0	7.0	7.5	5.5	4.5	5.0	0.0	0.0	0.0
7	17.0	16.0	16.5	7.0	6.5	7.0	4.5	4.0	4.5	0.0	0.0	0.0
8	17.0	16.0	16.5	6.5	6.0	6.5	4.5	3.5	4.0	0.0	0.0	0.0
9	---	---	---	6.5	6.0	6.0	5.0	4.0	4.5	0.0	0.0	0.0
10	---	---	---	6.0	5.0	5.5	5.0	4.5	5.0	0.0	0.0	0.0
11	---	---	---	5.0	4.5	4.5	4.5	3.5	4.0	0.0	0.0	0.0
12	---	---	---	5.0	4.5	4.5	3.5	3.5	3.5	0.0	0.0	0.0
13	---	---	---	5.0	5.0	5.0	3.5	3.0	3.5	0.0	0.0	0.0
14	---	---	---	6.5	5.0	6.0	4.0	3.0	4.0	0.5	0.0	0.0
15	---	---	---	6.5	6.0	6.5	4.0	3.0	3.5	0.5	0.0	0.0
16	---	---	---	6.5	5.5	6.0	3.0	2.5	3.0	0.0	0.0	0.0
17	13.5	13.0	13.5	6.0	5.0	5.5	2.5	1.0	2.0	0.0	0.0	0.0
18	13.5	12.5	13.0	5.5	4.5	5.0	1.5	0.0	0.5	0.0	0.0	0.0
19	13.0	12.5	12.5	6.0	5.0	5.5	0.0	0.0	0.0	0.0	0.0	0.0
20	12.5	12.0	12.5	5.0	4.5	5.0	0.5	0.0	0.0	0.0	0.0	0.0
21	12.5	11.5	12.0	5.0	4.0	4.5	1.5	0.0	1.0	0.5	0.0	0.0
22	12.0	11.5	12.0	5.5	4.5	5.0	1.0	0.5	0.5	0.5	0.0	0.0
23	12.5	11.5	12.0	6.0	5.0	5.5	0.5	0.0	0.0	0.5	0.0	0.5
24	13.0	11.5	12.5	5.5	5.0	5.5	0.0	0.0	0.0	0.5	0.0	0.0
25	12.5	12.5	12.5	6.0	5.5	6.0	0.0	0.0	0.0	1.0	0.0	0.5
26	12.5	12.0	12.0	6.0	5.0	5.5	1.0	0.0	0.0	0.5	0.0	0.5
27	12.0	11.5	12.0	5.5	5.0	5.5	1.5	0.5	1.0	1.5	0.5	1.0
28	11.5	11.0	11.0	6.0	5.5	6.0	1.5	1.0	1.0	---	---	---
29	11.0	10.5	10.5	6.5	6.0	6.0	1.5	1.0	1.5	2.0	1.5	2.0
30	11.5	10.5	11.0	6.0	5.5	5.5	1.5	1.0	1.0	2.0	1.5	2.0
31	12.0	11.0	11.5	---	---	---	1.0	1.0	1.0	2.5	1.5	2.0
MONTH	---	---	---	11.5	4.0	6.5	5.5	0.0	2.5	2.5	0.0	0.5

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	2.0	1.5	1.5	2.5	1.5	2.0	4.5	3.0	3.5	15.0	13.0	14.0
2	1.5	0.5	1.0	3.0	2.0	2.5	4.0	3.5	4.0	14.0	12.5	13.5
3	0.5	0.0	0.0	3.0	2.5	2.5	6.0	4.0	5.0	13.0	13.0	13.0
4	0.0	0.0	0.0	3.5	3.0	3.0	7.5	5.5	6.5	13.0	12.0	12.5
5	---	---	---	4.5	3.0	4.0	8.5	7.5	8.0	13.0	11.5	12.5
6	---	---	---	5.0	3.5	4.5	8.5	6.5	7.5	12.5	11.5	12.0
7	---	---	---	6.0	4.0	5.0	6.5	6.0	6.0	11.5	11.0	11.5
8	---	---	---	5.5	4.5	5.0	6.0	5.0	5.5	12.5	10.5	11.5
9	---	---	---	4.5	3.5	4.0	5.0	4.0	4.5	13.5	11.0	12.0
10	---	---	---	4.0	2.5	3.5	4.5	4.0	4.0	12.5	11.5	12.0
11	---	---	---	3.0	2.0	2.5	5.0	4.0	4.0	13.0	11.0	12.0
12	---	---	---	2.5	1.5	2.0	5.0	3.5	4.5	11.5	11.5	11.5
13	---	---	---	2.0	1.0	1.5	5.5	5.0	5.0	12.5	11.0	11.5
14	---	---	---	2.0	0.5	1.5	8.5	5.5	6.5	13.0	11.0	12.0
15	---	---	---	2.5	1.5	2.0	8.5	6.5	7.5	14.0	12.5	13.0
16	---	---	---	2.5	2.0	2.5	9.0	7.5	8.0	15.5	14.0	14.5
17	---	---	---	3.0	2.5	3.0	9.0	8.0	8.0	17.0	15.0	16.0
18	---	---	---	3.5	2.5	3.0	9.0	8.0	8.5	18.0	16.0	17.0
19	---	---	---	2.5	2.0	2.5	9.5	8.5	9.0	18.5	17.0	17.5
20	---	---	---	3.0	2.0	2.5	10.5	8.5	9.0	18.5	17.5	18.0
21	1.0	0.0	0.5	2.5	2.5	2.5	12.0	9.0	10.0	18.0	17.0	17.5
22	2.0	0.5	1.0	---	---	---	12.5	10.5	11.5	18.0	16.5	17.5
23	2.0	1.0	1.5	---	---	---	12.0	11.5	11.5	17.5	16.5	16.5
24	1.5	0.5	1.0	3.0	2.5	3.0	11.5	11.0	11.0	16.5	15.5	16.0
25	1.0	0.5	0.5	3.0	2.0	2.5	11.0	10.0	10.5	15.5	15.0	15.5
26	1.0	0.5	1.0	3.0	2.5	3.0	10.5	9.5	10.0	15.0	14.0	14.5
27	1.5	0.5	1.0	3.0	2.5	2.5	11.0	9.0	10.0	14.0	12.5	13.5
28	2.0	0.5	1.5	3.5	2.5	3.0	11.5	9.5	10.5	13.5	12.5	12.5
29	---	---	---	3.5	2.0	3.0	13.0	10.5	11.5	12.5	12.0	12.0
30	---	---	---	3.0	2.5	2.5	14.0	12.0	13.0	13.5	12.0	12.5
31	---	---	---	3.0	2.5	3.0	---	---	---	14.0	12.5	13.5
MONTH	---	---	---	6.0	0.5	3.0	14.0	3.0	8.0	18.5	10.5	14.0

MERRIMACK RIVER BASIN

01100750 MERRIMACK RIVER AT WEST NEWBURY, MASS.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974.--Continued

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	14.5	13.5	14.0	23.0	22.0	22.5	26.5	25.0	25.5	24.5	22.5	23.0
2	15.5	14.0	15.0	23.5	22.5	23.0	27.0	25.5	26.0	23.5	22.0	22.5
3	16.5	14.5	15.5	24.0	23.0	23.5	27.0	25.5	26.5	22.0	20.0	21.5
4	18.0	15.5	17.0	26.0	23.5	24.5	27.5	26.5	27.0	20.5	19.5	20.0
5	19.0	16.5	18.0	25.5	23.5	24.5	27.5	26.5	27.0	20.5	19.5	20.0
6	19.5	18.0	18.5	25.0	23.0	24.0	27.0	26.0	26.5	20.5	20.0	20.0
7	20.0	18.0	19.0	26.5	24.5	25.0	26.5	25.5	26.0	20.0	19.0	19.5
8	21.0	18.5	20.0	27.0	25.5	26.0	27.0	25.5	26.0	20.0	18.5	19.5
9	22.5	20.5	21.5	28.0	26.0	27.0	26.0	25.0	25.5	21.0	19.5	20.0
10	23.5	21.5	22.5	28.0	26.5	27.5	25.5	24.5	25.0	21.5	20.0	20.5
11	22.5	21.0	22.0	27.5	26.0	26.5	25.5	24.0	25.0	21.5	20.0	21.0
12	23.0	21.0	22.0	26.5	25.0	25.5	26.0	24.0	25.0	22.5	20.5	21.5
13	23.5	21.5	22.5	27.0	25.5	26.0	26.0	24.5	25.0	23.0	22.0	22.5
14	24.0	22.0	23.0	28.0	26.0	27.0	26.0	24.5	25.0	22.5	22.0	22.5
15	24.0	22.0	23.0	28.5	27.0	27.5	26.0	24.0	25.0	22.5	21.0	21.5
16	23.0	22.0	22.5	28.0	26.5	27.0	25.5	23.5	24.5	21.5	20.5	21.0
17	22.5	21.5	22.0	26.5	25.0	26.0	25.0	24.0	24.5	21.0	20.0	20.5
18	23.0	22.0	22.5	27.0	25.5	26.0	25.0	24.0	24.5	20.5	20.0	20.5
19	24.0	22.0	23.5	26.5	25.5	26.0	25.5	24.0	25.0	21.0	20.0	20.5
20	24.5	22.5	23.5	25.5	25.0	25.5	26.5	24.5	25.5	21.5	20.5	21.0
21	24.5	23.5	24.0	25.5	24.5	25.0	26.5	25.0	26.0	21.0	20.0	21.0
22	24.5	23.5	24.0	26.0	24.5	25.0	26.5	25.5	26.0	20.5	19.5	20.0
23	24.5	23.5	24.0	25.5	24.5	25.0	26.5	26.0	26.5	19.5	18.5	19.5
24	24.5	23.0	23.5	26.0	24.5	25.0	27.0	26.0	26.5	18.5	17.5	18.0
25	24.0	21.5	22.5	26.0	24.5	25.0	26.5	25.5	26.0	18.0	17.5	17.5
26	21.5	20.5	21.0	25.5	24.5	25.0	25.5	25.0	25.0	18.0	17.5	17.5
27	21.0	20.5	21.0	26.0	25.0	25.5	25.5	24.5	25.0	18.0	17.0	17.5
28	22.0	20.5	21.0	25.5	25.0	25.5	25.0	24.5	25.0	18.5	17.5	18.0
29	22.0	21.0	21.5	25.5	25.0	25.0	24.5	23.0	24.0	19.0	18.0	18.5
30	22.5	21.0	21.5	25.0	24.5	25.0	23.0	22.5	22.5	18.5	17.0	17.5
31	---	---	---	26.0	24.5	25.0	23.0	22.0	22.5	---	---	---
MONTH	24.5	13.5	21.0	28.5	22.0	25.5	27.5	22.0	25.5	24.5	17.0	20.0
YEAR	28.5	0.0	12.5									

01106000 ADAMSVILLE BROOK AT ADAMSVILLE, R.I.

LOCATION.--Lat 41°33'30", long 71°07'47", Newport County, two-parameter monitor at gaging station on right bank 0.2 mi (0.3 km) upstream from milldam at Adamsville and 0.7 mi (1.1 km) upstream from mouth.

DRAINAGE AREA.--7.91 mi² (20.49 km²).

PERIOD OF RECORD.--Chemical analyses: February 1973 to June 1974 (discontinued).
Water temperatures: July 1973 to June 1974 (discontinued).

EXTREMES.--Period of record:
Specific conductance: Maximum, 271 micromhos Sept. 17, 1973; minimum, 40 micromhos Apr. 9, 1973.
Water temperatures: Maximum, 27.5°C June 15, 1974; minimum, freezing point on many days during winter period.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), OCTOBER 1973 TO JUNE 1974

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	115	104	108	114	95	98	92	89	91	81	79	80
2	112	106	109	100	96	98	92	90	92	106	80	86
3	110	96	101	100	98	99	92	90	91	93	80	84
4	97	93	95	---	---	---	94	89	92	82	79	80
5	98	92	95	---	---	---	93	89	91	82	79	80
6	98	92	95	101	99	99	96	89	91	84	81	82
7	97	92	94	100	97	99	100	89	91	85	82	83
8	100	93	95	100	96	98	93	90	91	102	84	95
9	101	95	97	99	97	98	91	85	88	114	97	105
10	100	95	97	97	94	96	90	86	88	109	95	103
11	101	97	98	96	92	94	96	89	91	102	88	93
12	100	97	98	96	92	94	98	89	91	102	87	94
13	101	98	100	95	91	93	98	92	95	101	88	94
14	106	100	102	96	91	92	93	89	91	106	90	97
15	104	100	102	103	90	96	92	89	91	108	90	99
16	104	101	102	104	102	102	92	89	90	92	87	89
17	103	100	101	105	100	102	91	68	77	104	87	95
18	101	99	100	104	100	102	79	69	72	125	96	104
19	102	98	99	104	99	101	77	73	75	104	86	94
20	102	98	99	100	97	99	83	74	77	96	86	91
21	102	100	101	99	96	97	79	73	75	109	89	95
22	117	100	104	98	94	96	---	---	---	103	76	84
23	110	102	105	94	92	93	---	---	---	107	75	90
24	[illegible]	104	106	93	91	92	---	---	---	101	76	85
25	108	105	107	91	87	89	94	86	90	---	---	---
26	109	[illegible]	107	89	88	89	92	79	81	95	83	90
27	[illegible]	[illegible]	107	88	87	88	82	77	79	93	75	80
28	109	105	106	89	81	85	81	76	79	94	76	86
29	105	98	102	88	85	87	80	78	79	107	85	96
30	108	94	101	93	89	90	108	79	87	94	88	90
31	100	97	98	---	---	---	106	80	89	96	86	91
MONTH	117	92	101	114	81	95	108	68	86	125	75	91

01106000 ADAMSVILLE BROOK AT ADAMSVILLE, R.I.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C, OCTOBER 1973 TO JUNE 1974.--Continued

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	114	89	94	86	83	85	79	75	77
2	89	84	87	---	---	---	---	---	---	77	73	75
3	93	87	90	---	---	---	89	85	86	76	74	75
4	94	91	92	106	89	92	89	78	83	73	70	71
5	112	92	99	---	---	---	81	78	79	72	69	70
6	---	---	---	---	---	---	89	79	80	72	70	71
7	99	95	97	95	92	94	---	---	---	76	71	73
8	101	96	98	---	---	---	---	---	---	77	73	75
9	120	93	103	---	---	---	85	81	80	79	75	77
10	110	97	104	---	---	---	97	71	76	77	73	76
11	111	92	101	---	---	---	---	---	---	78	71	73
12	113	99	110	---	---	---	77	73	75	74	71	73
13	116	97	101	---	---	---	79	76	78	93	71	78
14	100	97	99	---	---	---	79	76	78	---	---	---
15	---	---	---	---	---	---	79	75	77	88	74	79
16	---	---	---	112	94	104	79	77	78	81	74	78
17	113	101	103	106	90	95	84	77	79	108	78	84
18	---	---	---	102	92	97	83	61	80	82	76	79
19	---	---	---	---	---	---	83	80	81	82	79	81
20	104	88	91	---	---	---	81	78	80	---	---	---
21	---	---	---	102	90	94	82	79	80	92	83	88
22	93	88	91	---	---	---	82	60	81	115	82	96
23	103	80	84	---	---	---	83	81	82	119	95	103
24	---	---	---	83	79	80	81	80	81	126	96	104
25	100	97	99	---	---	---	---	---	---	126	95	99
26	111	86	92	---	---	---	---	---	---	97	92	95
27	---	---	---	---	---	---	---	---	---	105	90	93
28	99	88	90	---	---	---	---	---	---	91	88	90
29	---	---	---	---	---	---	---	---	---	90	81	86
30	---	---	---	87	85	86	81	76	78	112	82	86
31	---	---	---	87	84	86	---	---	---	87	68	79
MONTH	---	---	---	---	---	---	---	---	---	126	66	82

	JUNE		
DAY	MAX	MIN	MEAN
1	77	71	74
2	103	71	77
3	103	74	78
4	89	77	79
5	83	75	77
6	78	70	76
7	---	---	---
8	95	77	85
9	80	74	76
10	87	71	76
11	78	73	76
12	76	74	75
13	103	73	83
14	106	75	81
15	93	77	80
16	91	76	81
17	83	60	68
18	99	60	74
19	99	75	84
20	105	79	97
21	109	89	101
22	95	79	88
23	89	79	85
24	90	78	81
25	93	66	74
26	75	59	63
27	98	61	74
28	94	74	81
29	---	---	---
30	---	---	---
31	---	---	---
MONTH	109	59	79
PERIOD	126	59	89

01106000 ADAMSVILLE BROOK AT ADAMSVILLE, R.I.--Continued

TEMPERATURE (°C) OF WATER, OCTOBER 1973 TO JUNE 1974

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	15.0	13.5	14.5	13.0	11.0	12.0	6.0	4.0	5.5	4.0	3.0	3.5
2	15.5	13.0	14.5	11.5	9.5	11.0	3.5	2.0	3.0	4.5	2.0	2.5
3	17.5	15.5	17.0	---	---	---	3.0	1.5	2.5	2.0	0.0	1.0
4	18.5	17.0	17.5	---	---	---	5.5	2.5	4.0	1.0	0.0	0.0
5	18.0	17.0	17.5	---	---	---	8.5	5.0	6.5	0.0	0.0	0.0
6	17.0	15.0	16.0	6.5	5.5	6.0	10.5	8.5	9.5	0.5	0.0	0.0
7	15.5	13.5	14.5	6.5	4.5	5.5	8.0	5.5	7.0	0.5	0.0	0.0
8	13.5	12.0	13.0	7.0	4.5	5.5	5.5	4.5	5.0	1.0	0.0	0.5
9	13.5	11.5	12.5	7.0	5.5	6.5	7.5	4.5	5.5	1.5	0.0	1.0
10	13.5	12.0	13.0	5.5	3.5	4.5	8.0	6.5	7.5	1.5	0.0	0.5
11	13.5	12.0	12.5	4.5	2.5	3.5	6.5	4.5	5.5	1.0	0.0	0.0
12	12.5	10.0	11.5	5.0	3.0	4.0	4.5	3.0	4.0	1.0	0.0	0.5
13	14.5	12.5	13.5	7.0	4.0	5.5	3.0	1.5	2.5	1.0	0.0	0.0
14	16.0	14.0	15.0	9.5	7.0	8.5	5.5	3.0	4.5	1.5	0.0	0.5
15	14.5	13.0	14.0	10.0	7.5	9.0	5.5	4.5	5.0	1.5	0.0	0.5
16	14.0	12.5	13.5	10.5	8.5	10.0	4.5	3.0	3.5	0.5	0.0	0.0
17	12.5	10.5	11.5	8.0	5.5	6.5	6.0	3.5	4.5	2.0	0.0	0.5
18	11.5	9.5	10.5	6.5	4.5	5.5	5.5	1.5	3.0	2.5	0.0	1.0
19	10.5	9.0	10.0	7.0	5.0	6.0	1.5	0.0	0.5	1.5	0.0	0.5
20	10.0	9.0	9.5	5.5	3.5	4.5	2.5	0.5	1.5	1.0	0.0	0.5
21	10.5	8.5	9.5	5.0	2.5	4.0	6.0	3.0	5.0	2.0	0.5	1.0
22	10.5	7.5	9.0	8.0	5.0	6.5	---	---	---	3.0	0.0	1.0
23	11.0	7.5	9.5	8.5	7.0	7.5	---	---	---	3.5	1.0	2.0
24	12.5	9.0	10.5	8.0	7.0	7.5	---	---	---	3.0	1.0	2.0
25	13.0	11.0	12.0	9.0	8.0	8.5	1.5	0.5	1.0	---	---	---
26	12.0	11.0	11.5	8.5	6.5	7.5	5.0	1.5	3.0	---	---	---
27	13.0	10.0	11.5	7.5	6.0	6.5	6.5	5.0	6.0	5.5	2.0	4.0
28	11.0	9.0	9.5	10.5	7.0	8.5	7.0	5.0	6.0	5.5	4.0	4.5
29	11.0	8.5	9.0	10.5	8.0	9.5	5.5	4.0	5.0	7.5	5.0	6.0
30	13.0	11.0	12.5	8.0	6.0	7.0	7.5	5.5	6.0	---	---	---
31	12.5	11.0	12.0	---	---	---	6.0	3.0	4.0	7.0	4.5	5.5
MONTH	18.5	7.5	12.5	13.0	2.5	7.0	10.5	0.0	4.5	7.5	0.0	1.5

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	7.0	3.5	4.5	21.0	16.0	18.0
2	3.0	0.5	1.0	---	---	---	---	---	---	17.0	12.0	15.0
3	1.0	0.0	0.5	---	---	---	10.5	5.0	7.5	13.5	11.5	12.5
4	1.0	0.5	0.5	---	---	---	10.5	9.0	9.5	17.0	10.5	13.5
5	2.5	0.5	1.0	---	---	---	10.5	9.5	10.0	16.0	10.5	13.0
6	---	---	---	---	---	---	10.0	9.0	9.5	13.5	11.5	12.5
7	1.0	0.5	0.5	---	---	---	---	---	---	16.0	11.5	13.5
8	1.0	0.5	0.5	---	---	---	---	---	---	17.0	10.5	14.0
9	2.5	1.0	1.5	---	---	---	7.0	5.5	6.5	16.0	11.5	13.5
10	2.0	0.5	1.5	---	---	---	6.5	3.5	4.5	13.5	11.5	12.5
11	1.5	0.0	1.0	---	---	---	---	---	---	15.0	11.5	13.0
12	---	---	---	---	---	---	10.0	5.5	7.5	13.0	12.0	12.0
13	1.5	0.5	1.5	---	---	---	9.0	8.0	9.0	17.0	12.0	14.0
14	---	---	---	---	---	---	9.0	7.5	8.0	---	---	---
15	---	---	---	---	---	---	14.0	8.5	11.0	19.5	14.5	17.0
16	---	---	---	---	---	---	14.5	9.5	11.5	20.5	15.5	18.0
17	1.5	0.5	1.0	6.5	4.0	5.5	14.5	9.5	11.5	21.5	16.0	18.5
18	---	---	---	4.0	3.0	4.0	15.0	9.5	12.0	20.5	16.0	18.0
19	---	---	---	---	---	---	12.0	8.5	10.5	19.0	15.0	17.0
20	2.0	0.5	1.0	---	---	---	12.0	6.5	9.0	---	---	---
21	---	---	---	6.0	4.5	5.5	14.0	7.5	11.0	16.5	14.0	15.5
22	---	---	---	---	---	---	14.5	10.5	12.5	20.0	14.0	16.5
23	---	---	---	---	---	---	15.0	11.5	13.0	18.5	15.0	16.5
24	---	---	---	8.5	5.5	6.5	---	---	---	15.0	13.5	14.0
25	---	---	---	---	---	---	---	---	---	15.5	12.0	14.0
26	---	---	---	---	---	---	---	---	---	14.5	12.5	13.5
27	---	---	---	---	---	---	---	---	---	13.5	11.0	12.0
28	---	---	---	---	---	---	---	---	---	13.0	10.0	11.5
29	---	---	---	---	---	---	---	---	---	12.0	11.0	11.5
30	---	---	---	3.0	1.5	2.0	20.0	18.0	19.0	14.5	11.0	12.0
31	---	---	---	4.5	3.0	3.5	---	---	---	16.0	11.5	14.0
MONTH	---	---	---	---	---	---	---	---	---	21.5	10.0	14.5

WEST BRANCH WESTPORT RIVER BASIN

01106000 ADAMSVILLE BROOK AT ADAMSVILLE, R.I.--Continued

TEMPERATURE (°C) OF WATER, OCTOBER 1973 TO JUNE 1974.--Continued

JUNE

DAY	MAX	MIN	MEAN
1	16.0	15.0	15.5
2	16.5	14.5	15.0
3	18.0	14.0	16.0
4	18.5	14.5	17.5
5	19.0	16.0	17.5
6	19.5	16.5	18.5
7	---	---	---
8	19.5	16.0	18.0
9	20.5	17.0	18.5
10	23.5	18.5	21.0
11	26.0	20.0	21.5
12	24.0	19.5	20.5
13	21.0	17.5	19.0
14	20.0	16.5	18.0
15	27.5	16.0	19.0
16	19.5	17.5	18.5
17	19.0	17.5	18.0
18	23.0	17.5	20.0
19	23.0	19.5	21.5
20	23.0	21.0	22.5
21	25.0	20.5	22.0
22	22.5	19.0	21.5
23	22.0	20.0	21.0
24	21.0	17.5	19.5
25	19.5	16.5	18.0
26	17.0	14.5	15.5
27	18.0	14.5	16.0
28	17.5	15.5	16.0
29	---	---	---
30	---	---	---
31	---	---	---
MONTH	27.5	14.0	18.5
PERIOD	27.5	0.0	9.0

01109200 WEST BRANCH PALMER RIVER NEAR REHOBOTH, MASS.

LOCATION.--Lat 41°52'46", long 71°15'18", Bristol County, two-parameter monitor at gaging station on left bank 20 ft (6 m) downstream from culvert on Homestead Avenue and 2.6 mi (4.2 km) north of Rehoboth.

DRAINAGE AREA.--4.96 mi² (12.85 km²).

PERIOD OF RECORD.--Chemical analyses: February 1973 to June 1974 (discontinued).
Water temperatures: July 1973 to June 1974 (discontinued).

EXTREMES.--Period of record:
Specific conductance: Maximum, 105 micromhos June 17, 1974; minimum, 38 micromhos Mar. 21, 22, 1974.
Water temperatures: Maximum, 30.0°C Aug. 31, Sept. 3, 1973; minimum, freezing point on many days during winter period.

REMARKS.--Additional chemical analyses for this station in table of samples collected at miscellaneous sites.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), OCTOBER 1973 TO JUNE 1974

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	77	72	75	76	71	73	68	66	67	72	71	72
2	80	74	78	71	69	70	69	66	67	73	71	72
3	77	70	75	71	69	70	71	68	70	74	72	73
4	74	64	68	70	68	69	73	72	73	75	66	72
5	65	63	64	70	68	69	76	73	75	77	71	75
6	66	63	64	70	69	69	79	76	77	79	77	78
7	67	63	65	73	69	71	77	73	75	80	77	79
8	68	64	66	74	70	72	74	73	74	84	79	81
9	70	65	68	76	73	74	84	72	74	87	82	85
10	70	68	69	75	73	74	74	70	72	85	83	85
11	73	69	71	78	73	75	70	68	69	83	80	81
12	75	70	73	80	76	78	70	68	69	80	79	80
13	76	72	74	80	79	79	73	69	71	82	77	80
14	77	73	75	85	80	82	72	65	70	84	77	81
15	78	75	76	86	83	85	66	65	65	81	55	70
16	78	75	77	85	83	84	65	64	65	67	52	58
17	78	75	76	84	82	83	66	46	54	70	58	65
18	79	76	77	82	80	81	51	48	49	77	70	73
19	80	76	78	83	81	82	59	47	54	70	49	56
20	80	79	79	82	79	81	64	59	62	66	54	59
21	82	78	80	83	79	81	65	63	64	55	46	51
22	83	79	81	84	80	82	63	61	62	57	57	57
23	82	79	81	83	81	82	65	62	64	57	45	53
24	90	83	87	82	81	81	69	63	67	53	45	48
25	89	86	88	81	80	80	75	68	73	62	53	58
26	89	87	88	85	75	77	74	71	73	66	60	63
27	90	87	89	75	72	74	69	64	66	65	48	53
28	89	87	88	73	70	72	67	65	66	61	50	53
29	89	87	88	71	67	69	70	66	68	60	46	52
30	98	87	92	68	67	67	71	69	70	60	54	57
31	89	76	80	---	---	---	71	70	70	64	56	60
MONTH	98	63	77	86	67	76	84	46	68	87	45	67

01109200 WEST BRANCH PALMER RIVER NEAR REHOBOTH, MASS.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), OCTOBER 1973 TO JUNE 1974.--Continued

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	70	61	68	76	72	74	66	63	65	70	67	68
2	71	70	71	72	70	71	66	64	65	69	66	67
3	75	71	74	71	70	71	68	64	66	68	66	66
4	76	74	75	74	71	73	67	65	67	68	65	66
5	80	73	77	73	72	72	67	65	66	66	63	65
6	85	79	82	74	71	73	66	63	65	67	65	66
7	82	78	80	75	72	74	65	62	64	68	65	66
8	80	77	79	75	73	73	65	63	64	68	46	64
9	80	78	79	74	72	73	63	54	59	70	65	68
10	83	76	80	74	73	74	53	52	53	70	63	66
11	81	79	80	75	71	73	57	52	54	63	61	62
12	82	78	80	75	73	74	60	56	58	61	60	60
13	82	78	80	76	70	74	61	60	60	63	59	61
14	79	76	78	78	73	76	62	60	61	63	58	61
15	83	75	79	79	74	77	60	55	57	62	59	61
16	86	79	82	79	76	78	56	54	55	65	61	63
17	83	61	77	76	68	72	59	55	57	68	63	66
18	76	67	73	68	66	67	62	58	60	68	66	67
19	80	58	76	67	65	66	62	60	61	69	65	67
20	72	52	63	70	66	68	63	59	61	69	64	66
21	64	53	59	68	38	59	65	61	63	71	65	68
22	64	43	60	51	38	45	66	63	65	76	67	71
23	57	43	50	56	50	53	67	65	66	74	69	71
24	63	55	60	60	56	59	65	62	64	72	68	71
25	64	61	63	62	58	60	63	61	62	69	66	68
26	68	64	66	65	60	62	65	60	62	69	67	68
27	72	66	69	66	63	65	66	61	63	69	65	67
28	72	69	71	68	64	66	67	63	65	71	64	67
29	---	---	---	66	56	63	69	65	67	69	65	66
30	---	---	---	67	64	66	70	67	68	70	66	68
31	---	---	---	67	64	65	---	---	---	72	67	70
MONTH	86	43	73	79	38	68	70	52	62	76	46	66

	JUNE		
DAY	MAX	MIN	MEAN
1	72	71	71
2	71	68	69
3	72	67	69
4	74	69	72
5	84	73	77
6	105	80	91
7	105	80	89
8	85	76	81
9	86	83	85
10	93	85	88
11	90	86	88
12	92	88	90
13	95	82	90
14	82	72	79
15	74	49	60
16	103	45	88
17	105	100	103
18	104	96	100
19	97	93	95
20	95	92	94
21	96	92	94
22	95	90	92
23	91	89	90
24	92	89	91
25	93	90	91
26	93	89	91
27	95	92	93
28	95	93	94
29	---	---	---
30	---	---	---
31	---	---	---
MONTH	105	45	86
PERIOD	105	38	71

01109200 WEST BRANCH PALMER RIVER NEAR REHOBOTH, MASS.--Continued

TEMPERATURE (°C) OF WATER, OCTOBER 1973 TO JUNE 1974

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	15.5	11.5	13.5	11.0	10.0	10.5	5.5	3.0	4.5	3.0	2.0	2.5
2	14.5	11.5	13.0	10.0	8.5	9.5	3.0	2.0	2.5	2.5	0.5	1.0
3	15.5	14.0	14.5	10.5	8.5	9.5	2.5	1.0	2.0	1.0	0.5	1.0
4	17.0	14.0	15.5	8.0	6.5	7.0	5.0	3.0	4.0	1.0	0.0	0.5
5	16.0	14.5	15.5	6.5	5.5	6.0	10.0	5.0	7.0	0.5	0.0	0.0
6	15.5	13.0	14.0	5.5	4.0	4.5	12.0	9.5	11.0	0.5	0.0	0.5
7	14.0	11.5	12.5	5.5	3.0	4.0	9.0	4.5	6.5	1.0	0.5	0.5
8	14.0	10.0	12.0	5.0	3.0	4.0	4.0	3.0	3.5	1.0	0.5	0.5
9	13.0	10.0	11.5	6.0	4.0	5.0	8.5	4.0	5.5	0.5	0.5	0.5
10	13.0	10.5	11.5	4.0	2.5	3.0	9.0	6.5	8.0	0.5	0.5	0.5
11	13.5	10.5	12.0	4.0	1.5	2.0	6.5	3.5	5.0	0.5	0.5	0.5
12	13.0	10.0	11.5	4.0	1.5	2.5	3.5	2.5	3.0	0.5	0.5	0.5
13	14.0	10.5	12.0	5.0	3.0	4.0	2.0	1.0	1.5	0.5	0.5	0.5
14	15.5	13.0	14.0	8.0	5.0	6.5	6.5	2.0	5.0	0.5	0.5	0.5
15	15.0	12.0	12.5	9.0	7.0	7.5	6.0	4.0	4.5	0.5	0.5	0.5
16	14.0	11.0	12.0	9.5	7.0	8.5	3.5	2.0	3.0	0.5	0.5	0.5
17	12.0	9.5	10.5	7.0	4.0	5.5	5.0	2.0	3.0	0.5	0.5	0.5
18	10.5	8.5	9.5	5.0	3.0	4.5	4.5	0.0	1.5	0.5	0.5	0.5
19	11.0	7.5	9.0	6.5	4.5	5.5	0.5	0.0	0.0	0.5	0.5	0.5
20	9.5	8.5	9.0	5.0	3.0	4.0	2.0	0.0	0.5	0.5	0.5	0.5
21	11.0	7.5	9.0	4.5	2.5	3.5	9.0	2.0	6.5	0.5	0.5	0.5
22	12.0	7.5	9.5	7.0	4.0	5.5	6.5	0.0	2.5	0.5	0.5	0.5
23	10.5	7.5	9.0	8.0	7.0	7.5	1.5	0.0	0.5	2.0	0.0	1.0
24	13.0	8.5	10.5	8.5	6.5	7.5	0.5	0.0	0.0	2.5	1.0	2.0
25	12.0	10.5	10.5	9.0	8.0	8.5	0.5	0.0	0.0	3.0	1.5	2.5
26	11.0	10.0	10.5	8.5	6.5	7.5	5.5	0.5	3.0	3.0	0.5	1.5
27	13.0	9.0	10.5	7.0	6.0	6.5	6.5	5.5	6.0	8.0	3.0	5.5
28	10.5	8.0	9.0	10.5	7.0	8.5	6.0	4.0	5.5	7.0	4.5	5.5
29	9.0	7.5	8.5	10.5	7.0	9.5	5.0	2.5	4.0	7.0	4.5	5.5
30	13.0	9.0	11.0	7.0	5.5	6.0	5.5	3.0	5.0	6.5	3.5	5.0
31	11.5	10.5	11.0	---	---	---	2.5	1.5	2.0	6.5	4.0	5.5
MONTH	17.0	7.5	11.5	11.0	1.5	6.0	12.0	0.0	4.0	8.0	0.0	1.5

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	5.5	1.0	2.5	4.5	3.5	4.0	9.0	3.0	6.0	18.0	14.5	16.0
2	1.0	0.0	0.0	3.0	1.5	2.5	8.0	6.0	6.5	14.5	11.5	13.0
3	0.0	0.0	0.0	3.0	2.5	3.0	11.0	4.0	7.5	12.5	10.5	11.5
4	0.0	0.0	0.0	9.0	3.0	6.0	12.5	10.5	11.0	14.5	9.5	12.0
5	0.0	0.0	0.0	9.0	7.5	8.5	12.5	11.5	12.0	14.0	10.5	12.5
6	0.5	0.0	0.0	7.5	5.5	7.0	11.5	7.5	9.5	13.0	11.0	12.0
7	0.0	0.0	0.0	10.0	6.0	8.0	10.0	5.0	7.5	13.5	11.0	12.0
8	0.0	0.0	0.0	9.5	6.0	7.5	9.5	8.0	8.5	15.5	10.0	13.0
9	0.0	0.0	0.0	6.0	4.0	5.0	8.0	4.0	5.5	14.0	11.5	12.5
10	0.0	0.0	0.0	5.5	2.5	4.0	4.0	2.0	3.0	12.5	11.0	11.5
11	0.0	0.0	0.0	4.0	0.5	2.5	10.0	1.5	5.5	15.0	10.0	12.5
12	0.0	0.0	0.0	4.5	1.5	3.0	11.0	6.0	8.5	13.5	11.5	12.0
13	0.5	0.0	0.0	2.5	0.0	1.0	10.5	7.5	9.0	15.5	12.0	13.5
14	1.0	0.0	0.0	3.5	0.0	1.5	10.5	6.5	8.5	16.5	11.0	14.0
15	0.0	0.0	0.0	5.0	1.5	3.5	14.5	10.0	12.0	20.0	14.0	17.0
16	1.0	0.0	0.0	7.0	4.0	5.0	14.5	8.5	11.5	20.5	16.0	18.5
17	0.0	0.0	0.0	7.0	3.5	6.0	14.5	8.5	11.5	22.0	17.0	19.5
18	0.5	0.0	0.0	4.5	1.0	3.0	15.0	10.0	12.5	20.5	18.0	19.0
19	0.0	0.0	0.0	5.0	1.5	3.5	13.5	9.0	11.0	21.0	16.5	18.0
20	0.5	0.0	0.0	7.0	3.0	5.5	11.5	6.5	9.0	19.0	14.5	16.5
21	1.5	0.0	0.5	6.0	3.0	4.5	14.5	8.5	11.5	16.5	13.5	15.0
22	4.5	0.0	1.5	6.5	2.0	4.5	15.5	12.0	14.0	20.0	14.0	17.0
23	4.5	1.5	3.5	6.0	2.0	4.5	16.0	13.5	14.5	18.0	13.0	15.5
24	2.0	0.0	1.0	8.0	5.0	6.5	14.5	9.0	11.0	13.0	12.0	12.5
25	1.0	0.0	0.5	5.0	1.0	3.5	11.0	7.0	9.0	15.5	12.0	14.0
26	2.5	0.0	1.0	4.5	1.0	3.0	11.0	7.5	9.5	14.5	13.0	13.5
27	2.0	0.0	1.0	5.0	1.0	3.0	14.0	8.5	11.0	13.0	10.5	12.0
28	4.0	0.0	2.0	6.0	2.0	4.0	14.0	10.5	12.5	13.0	9.5	11.5
29	---	---	---	3.5	0.5	1.5	17.5	12.5	15.0	12.0	11.0	11.5
30	---	---	---	2.5	1.0	1.5	17.5	15.5	16.5	14.0	11.0	12.5
31	---	---	---	4.0	2.5	3.5	---	---	---	16.0	12.5	14.5
MONTH	5.5	0.0	0.5	10.0	0.0	4.0	17.5	1.5	10.0	22.0	9.5	14.0

01109200 WEST BRANCH PALMER RIVER NEAR REHOBOTH, MASS.--Continued

TEMPERATURE (°C) OF WATER, OCTOBER 1973 TO JUNE 1974.--Continued

JUNE

DAY	MAX	MIN	MEAN
1	16.0	15.0	15.5
2	15.5	14.0	14.5
3	18.5	13.0	16.0
4	19.0	14.5	16.5
5	21.0	15.5	18.0
6	22.0	17.0	19.0
7	20.5	16.0	18.0
8	21.5	15.0	18.5
9	24.5	17.5	21.0
10	28.0	20.0	23.5
11	25.5	20.5	22.5
12	25.0	18.5	20.5
13	26.5	16.5	20.5
14	26.0	16.0	20.0
15	26.0	15.5	20.5
16	21.5	19.0	20.0
17	21.0	18.5	20.0
18	23.0	19.0	21.0
19	23.5	18.5	21.0
20	23.0	19.0	20.5
21	22.5	19.5	20.5
22	22.5	19.0	20.5
23	21.0	18.0	19.0
24	23.0	17.0	20.0
25	19.5	16.0	17.5
26	16.5	15.0	15.5
27	18.0	15.0	16.0
28	17.0	15.0	15.5
29	---	---	---
30	---	---	---
31	---	---	---
MONTH	28.0	13.0	19.0
PERIOD	28.0	0.0	8.0

01111230 BLACKSTONE RIVER AT MILLVILLE, MASS.

LOCATION.--Lat 42°01'16", long 71°34'04", Worcester County, multiple-parameter monitor on left bank 400 ft (100 m) above railroad bridge, 0.8 mi (1.3 km) southeast of Millville, and 1.4 mi (2.3 km) upstream from Branch River.

DRAINAGE AREA.--277 mi² (717 km²).

PERIOD OF RECORD.--Chemical analyses: July 1969 to current year (no winter records in water year 1973).
Water temperatures: July 1969 to current year (no winter records in water year 1973).

EXTREMES.--Current year:
Specific conductance: Maximum, 687 micromhos/cm Jan. 20; minimum, 112 micromhos/cm Oct. 31.
pH: Maximum, 7.6 Aug. 28; minimum, 5.2 Sept. 21.
Dissolved oxygen: Maximum, 14.4 mg/l Jan. 15; minimum, 1.0 mg/l Aug. 25.
Water temperatures: Maximum, 27.5°C July 9, 10; minimum, freezing point on several days during winter period.

Period of record:
Specific conductance: Maximum, 898 micromhos/cm Mar. 29, 1972; minimum, 49 micromhos/cm June 30, 1973.
pH: Maximum, 8.1 July 9, 1970; minimum, 4.3 Sept. 6, 1973.
Dissolved oxygen: Maximum, 14.9 mg/l Feb. 25, 1971; minimum, 0.0 mg/l July 12, 15-20, 26-30, Aug. 2, 3, 1971.
Water temperatures: Maximum, 29.0°C July 29, 1970; minimum, freezing point on many days during winter periods.

REMARKS.--Figures of daily discharge, computed on basis of records for gaging station at Woonsocket and for Branch River at Forestdale, are available at district office.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C) • WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	241	220	228	147	134	140	224	199	214	216	157	184
2	223	199	210	165	154	160	234	214	[illegible]	246	194	222
3	246	205	217	166	157	163	223	212	[illegible]	207	189	195
4	286	263	274	179	167	174	222	214	218	199	187	192
5	292	232	259	205	175	187	246	222	232	372	195	299
6	243	222	233	199	190	195	249	169	224	271	205	226
7	245	225	230	230	200	215	187	152	167	204	195	198
8	234	218	225	247	228	237	202	188	191	224	193	206
9	235	229	232	258	242	250	212	165	194	217	206	211
10	242	224	238	261	251	255	189	136	154	211	205	209
11	284	255	277	260	250	256	174	144	163	226	204	214
12	326	285	308	258	250	254	178	164	171	292	228	255
13	335	271	304	261	242	252	194	174	181	296	242	261
14	286	255	267	252	242	246	194	158	178	246	214	227
15	290	229	259	262	253	258	186	140	148	223	211	216
16	227	201	210	261	252	257	161	150	155	221	207	214
17	205	188	195	253	241	246	335	136	174	236	215	226
18	246	203	225	258	252	256	327	170	223	265	232	245
19	258	231	240	259	251	254	181	115	165	238	218	227
20	302	261	273	255	247	250	182	170	175	687	236	507
21	319	279	301	257	241	248	236	166	182	504	251	332
22	288	263	273	264	252	258	196	146	161	390	237	302
23	297	246	267	266	253	260	151	147	150	326	270	302
24	256	231	247	255	229	247	154	148	152	286	242	265
25	299	238	264	247	199	214	166	150	159	240	215	226
26	315	228	291	247	193	224	164	157	161	---	---	---
27	274	256	265	195	184	189	173	148	162	---	---	---
28	263	255	260	228	179	200	157	148	154	---	---	---
29	269	232	256	236	198	216	163	152	158	---	---	---
30	241	141	208	210	192	200	160	157	158	---	---	---
31	152	112	126	---	---	---	158	151	155	182	168	176
MONTH	335	112	247	266	134	225	335	115	178	687	157	244

01111230 BLACKSTONE RIVER AT MILLVILLE, MASS.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974.--Continued

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	198	187	192	235	183	199	237	187	207
2	192	172	182	199	188	193	201	182	191	210	170	185
3	186	169	180	195	188	191	201	186	194	196	186	190
4	196	175	186	197	185	188	184	178	182	207	187	197
5	---	---	---	208	187	197	182	174	179	184	177	180
6	---	---	---	205	196	200	192	176	184	181	177	179
7	224	205	212	207	197	202	188	181	184	201	182	187
8	270	217	235	213	201	207	186	180	182	202	191	198
9	259	225	235	212	204	208	---	---	---	201	196	198
10	243	216	223	213	200	207	254	210	233	213	188	201
11	251	216	226	215	199	210	429	204	304	228	165	193
12	230	219	223	215	201	206	257	208	235	180	164	174
13	235	220	227	215	211	213	209	196	205	170	130	146
14	332	230	257	224	215	220	209	182	197	157	131	148
15	334	254	288	236	219	228	176	156	163	166	152	161
16	252	237	244	232	212	225	167	157	163	180	160	168
17	245	234	240	213	151	187	172	160	168	188	170	177
18	298	236	248	166	147	158	174	163	170	190	180	185
19	346	238	300	180	166	174	182	168	174	192	186	188
[illegible]	305	186	227	186	171	178	182	166	172	188	180	183
21	210	194	201	183	130	165	176	168	172	197	182	187
22	201	179	193	150	130	139	175	170	172	209	197	204
23	210	176	186	149	139	146	188	174	181	210	201	206
24	181	172	176	157	148	154	195	176	185	224	208	216
25	178	172	174	165	156	160	188	175	181	229	199	212
26	193	174	184	177	160	171	194	179	185	223	183	191
27	201	183	192	189	176	184	194	187	190	201	190	196
28	199	185	193	191	183	187	199	189	193	188	180	183
29	---	---	---	199	186	191	192	186	188	200	188	191
30	---	---	---	202	191	197	212	192	200	214	201	208
31	---	---	---	309	189	246	---	---	---	211	201	206
MONTH	346	169	217	309	130	191	429	156	191	237	130	189

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	214	202	209	298	263	281	339	316	329	316	269	290
2	253	178	215	267	262	264	327	304	323	278	257	270
3	184	176	180	270	261	265	330	321	324	280	256	267
4	198	183	190	297	153	275	359	332	351	331	195	276
5	214	200	210	238	205	213	357	323	347	231	194	203
6	226	209	221	259	188	210	319	269	284	268	235	258
7	238	218	230	---	---	---	294	276	283	271	250	259
8	247	229	239	206	196	199	293	281	286	309	205	246
9	269	240	249	220	202	212	316	296	310	238	211	226
10	265	246	251	253	226	242	325	311	318	261	240	251
11	253	239	244	265	212	249	335	324	329	300	259	278
12	277	246	257	261	198	248	335	316	324	326	298	305
13	281	262	270	256	251	254	350	316	326	332	306	319
14	285	277	280	---	---	---	326	310	315	356	215	302
15	293	279	287	---	---	---	327	308	317	234	217	222
16	287	254	276	279	275	276	342	326	337	261	236	252
17	297	171	215	289	276	281	348	333	341	279	241	267
18	201	171	184	302	262	294	327	310	320	307	272	289
19	214	201	204	307	298	304	373	315	350	318	303	309
20	224	214	217	334	301	322	367	310	346	332	312	317
21	243	226	236	333	323	328	307	273	288	333	309	320
22	247	225	238	323	310	319	322	275	295	324	181	276
23	266	235	251	311	298	307	344	325	339	210	191	198
24	247	233	237	316	304	311	423	343	368	240	212	227
25	247	233	240	318	209	307	424	286	355	---	---	---
26	271	240	252	349	337	340	286	272	280	323	272	297
27	277	262	268	338	331	334	298	268	283	322	297	311
28	276	264	269	337	318	326	344	300	323	295	282	287
29	277	266	270	337	306	321	385	320	335	287	125	198
30	292	272	276	330	300	317	397	332	382	---	---	---
31	---	---	---	321	307	314	325	256	284	---	---	---
MONTH	297	171	239	349	153	283	424	256	322	356	125	269
YEAR	687	112	232									

01111230 BLACKSTONE RIVER AT MILLVILLE, MASS.--Continued

PH (UNITS), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.5	6.3	6.4	6.6	6.0	6.4	7.0	6.9	7.0	6.7	6.7	6.7
2	6.6	6.4	6.5	6.7	6.5	6.6	7.1	6.9	7.0	6.8	6.7	6.8
3	6.6	6.4	6.5	6.7	6.5	6.6	7.1	6.9	7.0	6.9	6.7	6.8
4	6.7	6.4	6.5	6.8	6.7	6.7	7.2	7.0	7.1	7.0	6.9	6.9
5	7.0	6.6	6.7	6.8	6.6	6.7	7.1	6.7	7.0	6.9	6.8	6.9
6	---	---	---	6.8	6.5	6.7	7.2	6.6	6.9	6.8	6.7	6.8
7	---	---	---	6.9	6.7	6.8	6.7	6.6	6.7	6.9	6.7	6.8
8	---	---	---	6.9	6.8	6.9	6.8	6.7	6.8	6.7	6.5	6.7
9	---	---	---	6.9	6.7	6.8	6.8	6.1	6.6	6.6	6.5	6.6
10	6.9	6.6	6.8	6.9	6.7	6.7	6.7	6.6	6.7	6.6	6.6	6.6
11	6.8	6.5	6.6	6.8	6.6	6.7	6.7	6.6	6.7	6.6	6.5	6.6
12	6.9	6.4	6.7	6.8	6.6	6.7	6.7	6.6	6.7	6.6	6.5	6.6
13	6.8	6.3	6.6	6.8	6.5	6.6	6.8	6.6	6.7	6.7	6.5	6.6
14	7.0	6.3	6.8	7.0	6.7	6.9	6.8	6.7	6.7	6.6	6.5	6.6
15	7.0	6.7	6.8	6.8	6.6	6.7	6.8	6.6	6.7	6.7	6.6	6.6
16	7.0	6.7	6.8	6.7	6.3	6.6	6.8	6.6	6.8	6.6	6.5	6.6
17	7.0	6.7	6.8	6.8	6.6	6.7	6.7	6.4	6.7	6.6	6.5	6.6
18	7.1	6.7	6.9	6.9	6.7	6.8	6.5	6.3	6.4	6.6	6.4	6.5
19	7.1	6.8	6.9	6.9	6.7	6.8	6.7	6.5	6.6	6.6	6.5	6.6
20	7.1	6.9	7.0	6.9	6.6	6.7	6.8	6.6	6.7	6.6	6.5	6.5
21	7.2	7.0	7.1	6.9	6.6	6.8	6.8	6.6	6.8	6.6	6.5	6.6
22	7.1	6.9	7.0	7.0	6.8	6.9	6.6	6.4	6.5	6.6	6.4	6.5
23	7.1	6.9	7.0	7.0	6.9	6.9	6.7	6.6	6.7	6.7	6.4	6.5
24	7.1	6.8	6.9	7.0	6.9	6.9	6.8	6.7	6.7	6.6	6.6	6.6
25	6.9	6.7	6.8	7.0	6.9	6.9	6.8	6.7	6.8	6.6	6.6	6.6
26	6.8	6.6	6.7	7.1	6.9	7.0	6.9	6.8	6.8	---	---	---
27	6.9	6.1	6.7	7.0	6.9	7.0	6.9	6.7	6.8	---	---	---
28	6.9	6.6	6.7	7.0	6.0	6.9	6.7	6.6	6.7	---	---	---
29	6.6	6.3	6.5	7.1	6.9	7.0	6.7	6.6	6.7	---	---	---
30	7.0	6.1	6.5	7.0	6.9	7.0	6.7	6.7	6.7	---	---	---
31	6.7	6.1	6.5	---	---	---	6.7	6.6	6.7	6.7	6.5	6.6
MONTH	7.2	6.1	6.7	7.1	6.0	6.8	7.2	6.1	6.8	7.0	6.4	6.6

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.9	6.7	6.8	6.7	6.7	6.7	6.6	6.3	6.5	6.7	6.4	6.6
2	6.9	6.7	6.9	6.8	6.7	6.8	6.5	6.3	6.4	6.7	6.3	6.5
3	7.2	6.9	7.0	6.8	6.7	6.7	6.6	6.3	6.5	6.6	6.4	6.5
4	7.2	7.1	7.2	6.9	6.6	6.8	6.5	6.3	6.5	6.8	6.4	6.6
5	---	---	---	6.8	6.7	6.8	6.5	6.3	6.4	6.8	6.4	6.6
6	---	---	---	6.9	6.7	6.8	6.5	6.3	6.4	6.7	6.5	6.6
7	6.5	6.4	6.5	6.9	6.7	6.8	6.6	6.3	6.5	6.7	6.5	6.6
8	6.5	6.3	6.4	6.8	6.5	6.7	6.6	6.4	6.5	6.8	6.5	6.7
9	6.5	6.4	6.5	6.8	6.7	6.8	6.5	6.4	6.4	6.9	6.5	6.7
10	6.5	6.4	6.5	6.8	6.7	6.7	6.5	6.3	6.4	6.6	6.4	6.5
11	6.5	6.3	6.4	6.8	6.7	6.8	6.6	6.4	6.5	6.7	6.5	6.6
12	6.6	6.5	6.5	6.9	6.8	6.8	6.6	6.5	6.5	6.6	6.2	6.5
13	6.6	6.5	6.5	6.8	6.7	6.7	6.5	6.4	6.5	6.5	6.3	6.4
14	6.6	6.5	6.5	6.8	6.7	6.7	6.6	6.4	6.5	6.6	6.4	6.5
15	6.6	6.4	6.5	6.7	6.5	6.7	6.6	6.1	6.4	6.7	6.4	6.6
16	6.6	6.5	6.5	6.7	6.7	6.7	6.5	6.3	6.4	6.7	6.4	6.6
17	6.6	6.5	6.6	6.7	6.5	6.6	6.7	6.3	6.4	6.7	6.4	6.6
18	6.6	6.4	6.5	6.6	6.4	6.5	6.6	6.4	6.5	6.7	6.5	6.6
19	6.6	6.6	6.6	6.7	6.5	6.6	6.6	6.4	6.5	6.7	6.5	6.6
20	6.6	6.3	6.4	6.7	6.6	6.6	6.6	6.4	6.5	6.7	6.4	6.6
21	6.5	6.3	6.4	6.6	6.4	6.6	6.8	6.4	6.6	6.7	6.4	6.5
22	6.5	6.5	6.5	6.4	6.2	6.3	6.7	6.5	6.6	6.7	6.4	6.6
23	6.5	6.4	6.4	6.5	6.3	6.4	6.6	6.4	6.5	6.5	6.5	6.5
24	6.6	6.4	6.5	6.6	6.5	6.5	6.5	6.3	6.4	6.5	6.5	6.5
25	6.6	6.5	6.5	6.6	6.5	6.5	6.7	6.4	6.5	6.6	6.4	6.5
26	6.6	6.5	6.6	6.6	6.5	6.6	6.7	6.4	6.6	6.6	6.5	6.6
27	6.6	6.5	6.6	6.7	6.6	6.6	6.8	6.5	6.6	6.6	6.5	6.5
28	6.8	6.5	6.6	6.7	6.5	6.6	6.8	6.4	6.6	6.7	6.5	6.6
29	---	---	---	6.6	6.5	6.5	6.9	6.5	6.7	7.0	6.5	6.7
30	---	---	---	6.6	6.3	6.5	6.7	6.5	6.6	7.3	7.0	7.1
31	---	---	---	6.5	6.3	6.4	---	---	---	7.2	7.0	7.1
MONTH	7.2	6.3	6.6	6.9	6.2	6.6	6.9	6.1	6.5	7.3	6.2	6.6

01111230 BLACKSTONE RIVER AT MILLVILLE, MASS.--Continued

PH (UNITS), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974.--Continued

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.9	6.8	6.8	6.3	5.8	6.0	6.5	6.1	6.3	7.6	6.7	7.2
2	6.9	6.5	6.8	6.6	5.9	6.3	6.8	6.2	6.4	7.4	7.3	7.4
3	7.0	6.6	6.8	6.5	6.1	6.3	6.6	6.0	6.3	7.4	6.8	7.1
4	7.0	6.6	6.8	6.6	6.2	6.3	6.5	5.9	6.2	7.2	6.6	6.9
5	6.8	6.6	6.7	6.5	6.1	6.2	6.5	6.0	6.3	7.4	6.5	7.0
6	6.9	6.5	6.7	6.3	6.0	6.2	6.7	6.1	6.4	7.2	6.7	7.0
7	6.9	6.5	6.7	6.4	6.1	6.2	6.4	6.1	6.3	6.6	5.7	6.3
8	6.9	6.5	6.7	6.5	6.1	6.3	6.5	5.7	6.2	7.0	5.8	6.6
9	6.9	6.5	6.7	6.7	6.0	6.4	6.3	6.0	6.2	7.1	5.3	6.6
10	7.0	6.5	6.7	6.5	6.2	6.4	6.4	6.0	6.2	7.1	5.7	6.6
11	6.9	6.6	6.7	6.7	6.2	6.4	6.4	6.0	6.1	7.0	6.0	6.6
12	6.7	6.5	6.6	6.8	6.2	6.5	6.5	5.9	6.2	6.6	5.7	6.3
13	6.8	6.5	6.6	6.9	6.3	6.5	6.4	6.0	6.2	6.7	5.7	6.2
14	6.8	6.5	6.6	6.9	6.3	6.6	6.5	6.0	6.2	6.7	6.1	6.4
15	6.7	6.5	6.6	6.7	6.3	6.5	6.7	6.1	6.4	6.5	6.1	6.3
16	6.5	6.3	6.4	6.6	6.3	6.4	6.7	6.1	6.3	6.7	6.2	6.5
17	6.3	6.1	6.2	6.8	6.2	6.5	6.4	6.1	6.3	6.7	6.5	6.6
18	6.6	6.2	6.4	6.7	6.2	6.4	6.4	5.8	6.1	6.5	6.1	6.3
19	6.5	6.2	6.4	6.6	6.1	6.4	6.7	6.0	6.3	6.4	6.0	6.2
20	6.4	6.2	6.3	6.4	6.2	6.3	6.7	6.2	6.4	6.6	5.7	6.2
21	6.4	6.2	6.3	6.4	6.0	6.2	7.0	6.3	6.7	6.0	5.2	5.6
22	6.6	6.2	6.4	6.4	6.0	6.2	7.1	6.5	6.8	6.7	6.3	6.6
23	6.4	6.2	6.3	6.6	6.1	6.3	6.9	6.5	6.7	6.9	6.6	6.7
24	6.5	6.2	6.3	6.6	6.2	6.4	7.1	6.4	6.8	7.1	6.8	6.9
25	6.3	6.1	6.2	6.6	6.2	6.4	7.2	6.8	7.0	7.1	6.9	7.0
26	6.3	6.2	6.2	6.6	6.1	6.3	6.9	6.7	6.8	7.4	6.8	7.2
27	6.3	6.0	6.1	6.3	6.1	6.2	7.1	6.7	6.8	7.3	6.7	7.1
28	6.4	6.0	6.2	6.4	5.8	6.1	7.6	6.7	7.1	7.1	6.5	6.9
29	6.3	5.8	6.1	6.3	5.6	5.9	7.8	6.7	7.1	6.6	5.6	6.1
30	6.4	5.9	6.2	6.3	5.8	6.1	6.9	6.2	6.6	---	---	---
31	---	---	---	6.5	5.9	6.2	7.3	5.9	6.8	---	---	---
MONTH	7.0	5.8	6.5	6.9	5.6	6.3	7.6	5.7	6.5	7.6	5.2	6.6
YEAR	7.6	5.2	6.6									

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	5.2	3.4	4.2	7.4	6.8	7.1	9.8	8.9	9.3	11.5	11.2	11.4
2	5.2	3.2	4.2	7.7	7.1	7.4	10.3	9.8	10.0	11.9	11.4	11.7
3	4.4	3.2	3.8	7.8	7.2	7.6	10.7	10.0	10.4	11.9	11.6	11.8
4	3.9	2.7	3.2	8.1	7.4	7.8	10.2	9.4	9.9	11.8	11.4	11.6
5	3.2	2.2	2.7	8.7	8.2	8.5	9.2	8.2	8.9	11.9	11.5	11.7
6	4.5	2.5	3.5	9.4	8.5	8.9	8.1	6.5	7.5	11.9	11.4	11.7
7	5.1	3.3	4.1	9.5	8.6	9.1	9.4	7.7	9.0	11.8	11.4	11.6
8	5.7	4.0	4.8	9.5	8.7	9.1	10.3	9.3	9.9	12.0	11.5	11.8
9	5.6	3.9	4.8	9.1	8.3	8.7	10.1	9.8	9.9	12.3	11.9	12.2
10	5.2	3.8	4.5	9.5	8.2	9.0	10.0	9.1	9.6	12.3	11.9	12.1
11	5.1	3.2	4.1	10.1	9.2	9.7	10.2	9.9	10.0	12.0	11.6	11.8
12	5.0	3.4	4.1	10.1	9.6	9.9	10.5	10.0	10.3	12.0	11.6	11.8
13	5.0	3.5	4.2	9.5	9.2	9.3	10.7	10.2	10.5	12.4	11.8	12.2
14	4.8	3.3	3.9	9.3	7.6	8.7	10.1	9.6	10.0	12.5	12.0	12.3
15	5.7	3.4	4.5	7.5	6.9	7.3	10.6	9.6	10.2	14.4	11.2	12.0
16	6.1	4.1	5.0	7.0	6.6	6.8	11.0	10.7	10.9	13.2	10.6	11.9
17	6.2	4.4	5.2	8.3	6.7	7.7	11.6	10.3	11.3	11.8	11.5	11.7
18	6.4	4.3	5.3	8.9	8.3	8.5	12.4	11.3	11.8	12.1	11.7	12.0
19	6.4	4.5	5.4	8.6	8.1	8.4	12.5	12.3	12.5	11.8	11.5	11.7
20	6.0	4.7	5.2	9.1	8.0	8.6	12.6	12.0	12.3	11.8	11.5	11.7
21	6.3	5.4	5.8	9.7	8.5	9.1	12.0	10.7	11.4	---	---	---
22	6.2	4.9	5.4	9.1	8.3	8.7	12.0	10.6	11.2	12.7	11.5	11.8
23	6.1	4.6	5.3	8.5	7.9	8.2	12.0	11.9	12.0	11.7	11.5	11.6
24	5.9	4.2	4.9	8.1	7.7	7.9	12.5	12.0	12.2	12.0	11.6	11.8
25	4.9	3.5	4.3	8.0	7.5	7.8	12.6	12.3	12.5	12.1	11.7	11.9
26	4.3	3.3	3.8	8.2	7.5	8.0	12.2	11.3	11.7	---	---	---
27	5.5	3.5	4.4	8.6	8.2	8.4	11.3	10.7	10.9	---	---	---
28	5.8	4.1	4.9	8.7	7.7	8.3	11.1	10.9	10.9	---	---	---
29	5.6	4.7	5.1	8.3	7.6	8.0	11.1	10.9	11.0	---	---	---
30	6.5	5.2	5.8	9.1	8.2	8.6	11.0	10.6	10.8	---	---	---
31	7.1	6.1	6.9	---	---	---	11.4	11.1	11.3	10.9	10.5	10.7
MONTH	7.1	2.2	4.6	10.1	6.6	8.4	12.6	6.5	10.6	14.4	10.5	11.8

01111230 BLACKSTONE RIVER AT MILLVILLE, MASS.--Continued

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974.--Continued

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	11.1	10.6	10.9	11.1	10.5	10.9	7.9	6.3	6.9
2	12.3	11.6	11.9	11.2	10.7	11.0	10.5	9.9	10.2	8.2	6.4	7.4
3	11.8	10.1	11.2	11.3	10.7	11.0	10.5	9.7	10.1	8.0	7.1	7.5
4	11.6	10.5	11.0	11.0	10.1	10.8	9.7	8.7	9.2	8.6	7.3	7.8
5	---	---	---	10.1	9.4	9.7	8.7	8.2	8.4	9.1	7.4	8.2
6	---	---	---	10.3	9.5	9.9	8.9	8.2	8.5	8.9	7.6	8.1
7	12.9	12.5	12.7	10.0	9.0	9.6	9.8	8.9	9.4	8.8	7.7	8.1
8	12.8	12.4	12.5	9.8	8.9	9.4	9.5	8.9	9.2	9.5	7.6	8.4
9	12.6	12.1	12.4	10.5	9.4	10.0	10.0	9.0	9.5	8.9	7.3	7.9
10	12.7	12.1	12.4	10.6	9.9	10.2	10.9	10.0	10.5	7.8	6.8	7.3
11	12.4	12.1	12.3	11.3	10.3	10.9	11.2	10.3	10.8	8.0	6.9	7.4
12	12.4	11.9	12.1	11.2	10.4	10.8	10.3	9.7	9.9	7.9	7.2	7.5
13	12.0	11.2	11.7	11.5	10.2	10.8	9.7	9.3	9.5	8.0	7.4	7.8
14	11.4	10.9	11.2	11.4	10.8	11.1	9.9	9.4	9.7	8.0	7.4	7.8
15	12.4	11.1	11.6	11.0	10.5	10.8	9.4	8.7	9.1	7.4	6.5	7.1
16	13.4	11.4	11.8	10.6	10.0	10.2	9.3	8.7	9.0	6.8	5.9	6.4
17	11.6	11.3	11.5	10.8	9.8	10.3	9.2	8.8	9.1	6.5	5.2	5.9
18	11.9	11.3	11.6	11.8	10.7	11.5	8.9	8.4	8.7	6.4	5.1	5.6
19	12.1	11.7	11.9	10.9	10.4	10.7	8.9	8.3	8.6	7.0	5.1	5.9
20	12.3	11.3	11.9	10.8	9.3	10.3	9.3	8.9	9.2	7.4	5.4	6.3
21	12.5	11.5	11.7	11.1	9.3	10.4	9.4	8.4	9.0	7.3	5.7	6.4
22	11.8	11.0	11.5	11.8	11.2	11.5	8.6	7.8	8.3	6.5	5.2	5.7
23	11.6	10.5	11.0	11.4	11.2	11.4	7.9	7.3	7.6	5.3	4.5	4.9
24	12.2	11.7	12.0	11.2	10.6	10.8	8.2	7.4	7.7	6.2	5.2	5.7
25	12.1	11.9	12.0	11.5	10.7	11.2	9.2	8.2	8.7	6.5	5.7	6.1
26	11.9	11.6	11.8	11.4	10.9	11.2	9.1	8.3	8.6	6.8	5.6	6.3
27	11.9	11.4	11.7	11.2	10.6	10.9	9.3	7.9	8.6	6.9	6.2	6.6
28	11.7	11.0	11.4	10.9	9.8	10.6	8.9	7.7	8.2	8.0	6.9	7.5
29	---	---	---	11.1	10.4	10.8	8.5	6.9	7.8	7.1	6.6	6.8
30	---	---	---	11.1	10.8	10.9	7.5	6.3	6.8	7.3	6.3	6.8
31	---	---	---	10.9	10.5	10.7	---	---	---	7.0	5.9	6.4
MONTH	13.4	10.1	11.8	11.8	8.9	10.7	11.2	6.3	9.0	9.5	4.5	6.9

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.0	[illegible]	5.7	5.7	2.3	3.9	5.1	1.2	3.1	4.2	1.9	2.8
2	6.4	[illegible]	5.8	5.8	2.3	4.2	7.1	2.1	4.3	2.5	1.6	2.0
3	[illegible]	[illegible]	6.6	5.5	2.2	3.5	6.1	1.7	3.8	2.7	1.9	2.2
4	7.1	5.5	6.2	3.6	1.9	2.6	4.9	1.4	2.9	4.4	2.1	2.9
5	6.2	4.6	5.3	5.2	2.1	3.3	3.8	1.1	2.3	5.5	4.4	4.9
6	6.3	4.1	5.1	3.2	2.6	2.9	6.2	1.3	3.5	4.8	3.6	4.2
7	6.2	4.2	5.1	5.2	3.0	4.0	4.2	1.7	3.0	4.9	4.3	4.7
8	6.2	4.1	5.1	5.8	3.0	4.3	5.6	2.1	3.6	5.7	4.6	5.1
9	6.0	3.7	4.8	6.4	3.4	4.7	3.9	1.4	2.6	5.9	4.7	5.2
10	6.2	3.0	4.4	5.3	2.8	4.0	5.1	1.4	3.0	5.4	4.1	4.8
11	5.8	2.4	3.8	5.1	2.1	3.5	5.3	1.5	3.2	4.5	2.8	3.7
12	5.5	2.6	3.9	6.4	2.5	4.3	5.7	1.6	3.5	4.5	2.3	3.2
13	6.1	2.6	4.2	6.7	2.9	4.8	5.3	1.8	3.5	4.4	1.9	2.9
14	5.7	2.7	4.1	6.7	3.3	5.1	5.6	2.1	3.7	3.2	1.8	2.3
15	5.9	2.6	4.1	6.1	3.3	4.7	6.3	2.1	3.9	4.9	2.7	3.7
16	3.8	2.4	3.1	6.1	3.3	4.7	5.9	1.4	3.5	5.8	3.9	4.8
17	4.3	3.1	3.8	7.1	3.8	5.4	5.1	1.7	3.3	6.2	4.8	5.4
18	4.6	3.8	4.3	6.2	2.2	4.4	5.9	1.9	3.7	5.6	3.5	4.9
19	5.1	3.6	4.2	5.6	2.7	4.2	4.9	1.4	2.8	5.7	3.3	4.1
20	4.9	3.3	3.9	5.0	2.2	3.6	5.2	1.2	2.9	6.1	2.8	4.2
21	3.7	2.9	3.2	5.1	2.2	3.5	7.2	2.2	4.4	4.4	2.8	3.4
22	4.3	2.9	3.5	5.7	2.8	4.0	7.3	2.3	4.6	4.4	3.2	3.6
23	3.2	2.5	2.8	6.7	2.7	4.5	4.8	1.5	3.2	7.0	4.4	5.9
24	4.9	3.0	3.9	6.3	3.2	4.7	4.7	1.4	2.8	7.5	6.0	6.7
25	4.2	3.0	3.5	5.7	3.0	4.2	4.2	1.0	2.3	6.6	5.1	6.2
26	4.5	3.2	3.8	5.7	2.1	3.7	5.2	1.1	2.8	6.3	5.0	5.6
27	5.0	3.3	4.0	4.6	2.4	3.5	5.2	1.9	3.3	5.5	4.3	4.9
28	5.4	3.4	4.2	6.0	2.5	4.0	6.5	1.3	3.6	5.3	4.3	4.8
29	4.9	2.9	3.7	5.5	2.4	3.9	4.8	2.7	3.8	5.9	4.4	5.3
30	5.5	2.7	3.9	5.3	2.4	3.9	3.2	2.2	2.6	---	---	---
31	---	---	---	5.6	2.4	4.0	4.3	2.1	3.0	---	---	---
MONTH	7.3	2.4	4.3	7.1	1.9	4.1	7.3	1.0	3.3	7.5	1.6	4.3
YEAR	14.4	1.0	7.4									

01111230 BLACKSTONE RIVER AT MILLVILLE, MASS.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	16.0	14.5	15.5	11.5	11.0	11.5	6.5	5.5	6.0	3.0	2.5	3.0
2	16.0	14.5	15.5	11.0	10.0	10.5	5.0	4.0	4.5	2.5	2.0	2.5
3	17.5	16.0	16.5	10.5	9.5	10.5	4.5	3.5	4.0	3.0	2.0	2.5
4	18.5	16.5	17.5	9.5	8.0	9.0	5.5	4.5	5.0	2.5	2.0	2.0
5	19.0	18.0	18.0	8.0	7.0	7.5	8.5	5.5	6.5	2.0	1.0	1.5
6	17.5	16.0	16.5	7.0	6.0	6.5	10.5	8.5	10.0	2.0	1.5	1.5
7	16.0	15.0	15.5	6.5	5.5	6.0	9.5	7.0	8.0	2.5	1.5	2.0
8	15.0	13.5	14.5	6.0	5.0	5.5	6.5	5.5	6.0	2.0	0.5	1.5
9	15.0	13.5	14.0	6.5	6.0	6.0	7.0	5.5	6.0	0.5	0.5	0.5
10	14.5	13.5	14.0	6.0	4.5	5.0	7.5	6.5	7.0	0.5	0.5	0.5
11	14.5	13.0	14.0	4.5	3.5	4.0	6.5	5.5	6.0	0.5	0.5	0.5
12	14.0	12.5	13.5	5.0	4.0	4.5	5.5	4.5	5.0	1.0	0.5	0.5
13	15.0	13.0	14.0	6.0	4.5	5.5	4.5	3.5	3.5	0.5	0.5	0.5
14	16.0	15.0	15.0	8.0	6.0	7.0	5.0	4.0	4.5	0.5	0.5	0.5
15	15.0	14.0	14.5	8.5	7.0	8.0	5.0	4.0	4.5	0.5	0.5	0.5
16	14.0	12.5	13.5	9.0	8.0	8.5	4.0	3.0	3.5	1.5	0.5	1.0
17	12.5	11.5	12.0	8.0	6.0	6.5	3.0	2.5	2.5	1.5	0.5	1.0
18	11.5	10.5	11.0	6.0	5.5	6.0	2.0	1.0	1.5	0.5	0.5	0.5
19	11.5	10.0	11.0	7.0	6.0	6.0	1.0	0.5	1.0	1.0	0.5	1.0
20	11.0	10.5	10.5	6.0	5.0	5.0	1.5	1.0	1.0	1.5	1.0	1.0
21	11.5	10.0	10.5	5.0	3.5	4.5	4.0	2.0	3.0	2.0	1.5	1.5
22	11.5	9.5	10.5	7.0	5.0	6.0	3.5	1.5	2.5	2.5	2.0	2.0
23	12.0	10.0	11.0	7.5	7.0	7.0	2.0	1.5	1.5	3.0	2.0	2.5
24	12.5	10.5	11.5	7.5	6.5	7.0	1.5	1.0	1.0	3.0	2.5	2.5
25	12.5	12.0	12.5	8.0	7.5	8.0	1.5	0.5	1.0	3.0	2.0	2.5
26	12.5	12.0	12.5	8.0	7.0	7.5	3.5	1.5	2.5	---	---	---
27	12.5	11.5	12.0	7.5	7.0	7.5	4.0	3.5	4.0	---	---	---
28	11.0	10.0	10.5	8.5	7.0	7.5	4.0	3.5	3.5	---	---	---
29	10.0	9.5	10.0	8.5	7.5	8.0	3.5	3.0	3.5	---	---	---
30	12.0	10.0	11.5	7.5	6.5	7.0	4.0	3.5	4.0	---	---	---
31	12.0	11.5	12.0	---	---	---	3.5	2.5	3.0	5.0	4.0	4.5
MONTH	19.0	9.5	13.0	11.5	3.5	7.0	10.5	0.5	4.0	5.0	0.5	1.5

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	4.5	3.0	3.5	5.5	4.5	4.5	7.0	4.0	5.5	18.5	16.0	17.5
2	3.0	1.5	2.5	4.5	4.0	4.5	7.0	6.0	6.5	16.5	13.5	15.0
3	5.0	1.5	2.5	4.5	4.0	4.5	9.5	5.5	7.5	15.0	13.0	13.5
4	4.5	2.5	3.5	7.5	4.5	5.5	12.0	9.0	10.0	15.5	12.0	14.0
5	---	---	---	8.5	7.5	8.0	13.0	11.5	12.0	15.0	12.0	14.0
6	---	---	---	8.0	6.5	7.5	12.5	10.0	11.0	14.5	13.0	14.0
7	1.0	0.5	0.5	9.5	7.0	8.0	10.5	8.0	9.5	14.0	13.0	13.5
8	1.0	0.0	0.5	9.5	7.5	8.0	10.5	9.0	10.0	15.0	11.5	13.5
9	1.5	0.0	0.5	7.5	6.0	6.5	9.5	6.0	7.5	15.0	13.5	14.5
10	1.0	0.0	0.5	6.5	5.5	6.0	6.0	4.5	5.5	14.5	13.5	14.0
11	1.0	0.5	1.0	5.5	3.5	4.5	8.5	4.5	6.5	15.0	12.5	14.0
12	1.5	0.0	0.5	5.5	4.0	4.5	10.5	7.5	9.0	15.0	13.5	14.0
13	2.5	0.5	1.5	4.5	2.5	3.5	10.0	8.5	9.5	15.0	13.0	14.0
14	3.0	2.0	2.5	4.5	2.0	3.5	11.5	8.0	9.5	16.5	13.0	15.0
15	2.0	0.5	1.5	5.5	3.0	4.5	13.5	11.0	12.0	19.5	15.5	17.5
16	2.0	0.5	1.5	6.5	5.5	6.0	13.5	11.0	12.0	21.0	17.5	19.5
17	2.5	1.5	2.0	7.0	6.0	6.5	13.5	11.0	12.5	22.5	19.0	20.5
18	2.5	1.0	2.0	5.5	4.0	5.0	14.5	11.5	13.0	22.0	19.5	21.0
19	2.5	1.0	1.5	5.5	4.0	5.0	14.0	12.0	12.5	21.5	19.0	20.5
20	2.5	2.0	2.0	7.0	4.5	6.0	13.0	10.0	11.5	20.0	17.5	19.0
21	3.0	1.5	2.0	6.5	4.0	5.0	15.0	11.0	13.0	19.0	17.0	18.0
22	4.0	2.0	2.5	5.0	2.5	3.5	16.0	13.5	14.5	20.5	17.5	19.0
23	4.0	2.5	3.5	5.0	3.5	4.5	16.0	15.0	15.5	20.0	16.5	18.5
24	3.0	1.5	2.0	6.5	5.0	6.0	15.0	12.0	13.5	16.5	15.0	15.5
25	2.5	2.0	2.5	5.5	3.5	4.5	13.0	10.5	11.5	16.0	14.5	15.5
26	3.5	2.0	3.0	5.5	3.5	4.5	12.5	10.5	11.5	16.0	15.0	15.5
27	4.0	2.0	3.0	6.0	3.5	5.0	14.5	10.0	12.5	15.0	13.5	14.5
28	4.5	3.0	3.5	6.5	4.0	5.5	15.5	12.5	14.0	15.0	12.5	13.5
29	---	---	---	5.5	3.5	4.0	18.0	14.5	16.0	14.5	13.5	14.0
30	---	---	---	4.0	3.0	3.5	18.0	17.0	17.5	15.5	13.5	14.5
31	---	---	---	4.5	4.0	4.0	---	---	---	17.0	15.0	16.0
MONTH	5.0	0.0	2.0	9.5	2.0	5.0	18.0	4.0	11.0	22.5	11.5	16.0

01111230 BLACKSTONE RIVER AT MILLVILLE, MASS.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974.--Continued

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	17.0	16.5	17.0	24.0	21.0	22.5	25.5	23.0	24.0	24.0	21.5	23.0
2	17.0	16.5	17.0	24.5	22.0	23.5	25.5	23.0	24.0	23.5	20.5	22.0
3	18.5	16.0	17.5	24.5	22.5	23.5	25.5	24.0	25.0	20.5	18.5	19.5
4	20.0	17.5	19.0	26.0	23.5	25.0	27.0	25.0	26.0	18.5	17.0	17.5
5	21.5	19.0	20.5	26.5	25.0	25.5	26.5	25.0	25.5	18.0	16.0	17.0
6	22.0	20.5	21.0	25.0	24.0	24.5	25.5	23.5	24.5	18.0	17.5	17.5
7	21.0	19.0	20.0	25.5	23.5	24.5	24.5	23.0	23.5	17.5	16.5	17.0
8	21.5	18.5	20.0	26.5	24.5	25.5	24.0	21.5	23.0	18.0	16.0	17.0
9	24.0	20.0	22.0	27.5	25.5	26.5	23.5	22.0	23.0	19.5	18.0	18.5
10	26.5	23.0	24.5	27.5	26.0	27.0	23.0	21.0	22.0	21.5	19.0	20.0
11	25.5	24.0	24.5	26.5	24.0	25.0	23.0	20.0	21.5	22.0	20.5	21.0
12	24.0	21.5	22.5	24.0	22.0	23.0	23.5	20.0	21.5	23.0	21.0	22.0
13	22.5	19.5	21.0	24.5	21.5	23.0	24.0	21.0	22.0	24.5	22.5	23.5
14	22.5	19.5	21.0	26.0	23.0	24.5	24.5	21.5	23.0	24.0	22.5	23.5
15	22.0	19.5	21.0	26.5	24.5	25.5	24.5	22.5	23.5	22.0	20.0	21.0
16	21.5	20.0	21.0	25.5	24.0	24.5	24.5	21.5	23.0	20.0	18.5	19.5
17	22.0	19.5	20.5	25.0	22.5	24.0	23.5	22.0	23.0	19.0	17.5	18.5
18	24.0	21.5	22.5	24.0	22.5	23.5	24.0	22.5	23.0	20.0	18.0	19.0
19	23.5	22.0	23.0	24.5	23.0	24.0	25.0	22.5	23.5	20.0	19.0	19.5
20	23.5	22.0	23.0	23.5	22.5	23.0	25.5	23.0	24.0	21.5	19.5	20.5
21	23.5	22.5	23.0	23.0	20.5	22.0	25.5	23.0	24.5	21.0	20.5	20.5
22	24.0	21.5	22.5	23.5	20.5	22.0	25.5	23.0	24.0	20.5	19.0	19.5
23	23.5	21.0	22.5	23.5	21.5	22.5	25.0	24.0	24.5	19.0	16.5	18.0
24	22.5	20.5	21.5	22.5	21.0	21.5	25.5	23.5	24.5	16.5	15.0	15.5
25	22.0	18.5	20.5	22.0	20.5	21.0	25.5	23.5	24.5	15.5	14.0	14.5
26	18.5	17.5	18.0	22.0	20.0	21.0	24.0	23.0	23.5	16.0	14.5	15.0
27	17.5	17.0	17.0	21.5	21.0	21.0	23.0	22.0	22.5	17.0	15.0	16.0
28	19.5	16.5	18.0	23.0	21.0	22.0	24.0	22.5	23.5	18.0	16.0	17.5
29	20.5	18.5	19.5	23.0	22.0	22.5	23.0	21.5	22.5	20.5	18.0	19.0
30	22.5	19.0	21.0	23.5	21.5	22.5	21.5	20.5	21.0	---	---	---
31	---	---	---	24.5	22.0	23.5	22.0	20.0	21.0	---	---	---
MONTH	26.5	16.0	20.5	27.5	20.0	23.5	27.0	20.0	23.5	24.5	14.0	19.0
YEAR	27.5	0.0	12.5									

01116500 PAWTUXET RIVER AT CRANSTON, R.I.

LOCATION.--Lat 41°45'03", long 71°26'44", Providence County, two-parameter monitor at gaging station on left bank at Cranston, 0.7 mi (1.1 km) upstream from Pocasset River.

DRAINAGE AREA.--200 mi² (518 km²).

PERIOD OF RECORD.--Chemical analyses: June 1969 to current year.
Water temperatures: November 1961 to current year.

EXTREMES.--Current year:
Specific conductance: Maximum, greater than 564 micromhos Sept. 24; minimum, 102 micromhos Mar. 25.
Water temperatures: Maximum, 28.0°C July 5; minimum, 0.5°C Feb. 6, 8-12.

Period of record:
Specific conductance: Maximum, greater than 564 micromhos Sept. 24, 1974; minimum, 64 micromhos Dec. 9, 1972.
Water temperatures: Maximum, 30.0°C July 1, 1964, Aug. 14, 1973; minimum, freezing point on many days during winter periods 1965-70, 1972-73.

REMARKS.--Conductance and temperature probes not operating at times.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	348	332	342	294	258	282	260	168	211	---	---	---
2	343	326	333	332	291	311	279	259	268	138	127	130
3	343	209	258	388	336	371	260	199	239	180	143	163
4	349	218	283	381	364	374	199	168	185	203	158	178
5	364	340	347	391	358	376	235	180	205	215	159	168
6	421	334	383	410	372	384	304	214	275	161	145	157
7	347	332	340	374	267	317	431	213	345	162	139	142
8	330	278	303	270	255	263	441	361	403	164	148	161
9	278	244	262	349	260	312	363	195	307	164	163	164
10	248	223	231	391	344	371	184	139	149	164	163	164
11	223	207	214	429	396	421	157	142	150	164	163	164
12	304	207	257	428	417	422	---	---	---	---	---	---
13	360	307	335	451	398	411	---	---	---	---	---	---
14	368	348	358	506	466	495	---	---	---	---	---	---
15	427	362	387	492	406	431	---	---	---	---	---	---
16	479	432	449	441	421	430	---	---	---	---	---	---
17	479	307	414	447	431	437	---	---	---	---	---	---
18	352	273	295	460	422	444	---	---	---	---	---	---
19	391	360	381	424	413	419	144	126	133	---	---	---
20	396	369	387	477	411	423	156	131	147	---	---	---
21	[illegible]	[illegible]	363	518	478	505	178	137	154	---	---	---
22	362	[illegible]	345	473	210	410	151	120	136	160	156	158
23	345	327	333	416	211	375	123	112	118	179	154	164
24	369	332	348	437	212	375	124	109	114	159	147	154
25	451	368	411	397	212	337	131	114	121	162	148	155
26	438	371	409	349	213	287	121	111	115	157	145	152
27	420	371	404	257	216	242	---	---	---	146	118	129
28	444	409	421	279	177	214	176	136	162	118	115	116
29	446	347	413	320	166	275	190	150	172	143	117	131
30	461	300	380	307	168	241	---	---	---	146	136	140
31	295	255	277	---	---	---	---	---	---	154	138	146
MONTH	479	207	344	518	166	365	---	---	---	---	---	---

01116500 PAWTUXET RIVER AT CRANSTON, R.I.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974.--Continued

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	154	148	151	175	139	158	122	107	115	186	144	161
2	153	138	144	184	133	167	161	114	138	187	156	176
3	143	124	130	135	122	129	141	131	137	153	138	142
4	135	125	129	155	131	143	168	136	157	157	147	152
5	146	137	140	199	127	157	176	147	157	212	164	196
6	198	146	167	239	167	191	173	140	159	332	214	237
7	258	186	219	256	182	210	149	138	144	302	196	226
8	218	165	194	279	193	219	139	110	130	238	177	195
9	216	174	196	270	208	228	126	107	116	223	174	192
10	196	128	152	236	193	201	155	109	134	240	167	192
11	128	120	124	197	152	182	160	129	146	245	185	202
12	179	121	148	203	137	160	168	128	147	247	214	222
13	224	158	188	289	172	204	171	132	154	342	193	254
14	227	172	206	270	192	213	138	124	131	275	201	230
15	185	150	170	293	170	216	137	112	126	228	188	207
16	150	134	144	260	170	207	149	113	139	243	177	206
17	143	120	130	179	133	145	172	147	159	261	190	219
18	144	123	128	156	123	144	147	137	141	257	212	219
19	179	116	132	216	125	168	153	142	148	215	200	204
20	178	143	161	210	160	189	154	126	141	233	206	217
21	172	145	158	201	107	162	137	111	123	221	210	215
22	184	150	164	147	106	133	118	109	112	245	213	230
23	181	149	165	153	114	140	141	113	124	285	236	262
24	147	110	122	125	113	119	143	133	139	323	271	302
25	115	108	111	113	102	109	151	137	144	298	203	266
26	155	119	140	142	111	132	170	148	161	338	286	321
27	167	139	151	162	126	143	168	154	159	282	193	237
28	157	144	150	179	131	160	191	148	161	---	---	---
29	---	---	---	204	158	184	177	148	164	---	---	---
30	---	---	---	244	167	202	156	132	144	---	---	---
31	---	---	---	200	119	137	---	---	---	---	---	---
MONTH	258	108	154	293	102	169	191	107	142	342	138	218

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	316	303	309	503	424	446	430	399	423
2	---	---	---	344	297	311	527	490	505	428	356	389
3	---	---	---	373	344	359	525	495	511	378	285	325
4	---	---	---	341	292	327	522	492	503	496	257	390
5	---	---	---	323	219	304	505	480	492	395	269	319
6	240	228	234	225	204	217	480	423	443	267	246	257
7	255	232	244	245	225	237	453	428	437	241	178	196
8	294	255	273	244	234	240	460	425	442	324	188	260
9	288	268	279	271	221	237	485	440	456	319	279	296
10	297	277	287	240	227	232	490	465	474	277	252	265
11	317	292	305	234	221	228	490	447	466	263	253	255
12	309	292	300	234	216	224	452	425	442	293	264	280
13	299	291	295	239	212	224	423	399	412	---	---	---
14	321	290	301	251	237	243	416	388	400	---	---	---
15	351	320	338	259	218	240	465	416	436	---	---	---
16	365	322	351	385	212	292	484	447	462	---	---	---
17	326	298	312	389	293	319	524	487	498	---	---	---
18	335	275	313	289	258	268	519	464	490	408	356	388
19	274	233	257	269	248	257	474	408	429	491	409	458
20	248	225	237	277	250	264	414	378	393	496	426	464
21	261	234	244	295	273	280	426	395	405	429	306	378
22	285	241	262	318	295	308	459	426	434	477	349	404
23	288	265	276	355	308	327	484	459	468	557	485	522
24	260	242	256	391	356	372	476	447	456	>564	517	543
25	259	249	253	427	392	405	454	409	427	505	419	451
26	249	208	233	429	411	421	408	390	399	413	202	290
27	252	209	226	422	379	392	412	395	403	379	249	298
28	255	241	245	389	354	367	414	380	392	371	332	360
29	263	231	241	375	355	365	538	393	462	329	237	291
30	299	263	280	374	344	357	556	340	492	277	234	263
31	---	---	---	433	374	404	401	324	362	---	---	---
MONTH	365	208	274	433	204	301	556	324	446	>564	178	351
YEAR	>564	102	264									

01116500 PAWTUXET RIVER AT CRANSTON, R.I.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	17.5	15.5	16.5	12.5	11.5	12.0	7.5	6.0	7.0	---	---	---
2	17.0	15.5	16.5	12.0	11.0	11.5	6.0	5.0	5.5	4.0	3.0	3.5
3	17.5	16.5	17.0	12.0	10.0	11.0	5.5	4.5	5.0	3.5	2.5	3.0
4	18.5	17.0	17.5	10.5	8.5	9.5	6.5	4.5	5.5	3.0	2.0	2.5
5	18.5	17.5	18.0	9.5	8.0	8.5	9.0	6.0	7.0	2.5	2.0	2.0
6	18.0	17.0	17.5	8.0	7.0	7.5	10.5	9.0	10.0	2.5	2.0	2.0
7	17.0	16.0	16.5	7.5	6.0	7.0	9.5	8.0	8.5	2.5	2.5	2.5
8	16.5	15.0	15.5	8.0	6.0	7.0	7.5	7.0	7.0	2.0	1.0	2.0
9	16.5	14.0	15.5	8.0	6.0	7.0	7.5	6.5	7.0	1.5	1.0	1.0
10	16.0	14.5	15.0	6.5	5.5	6.0	8.0	7.0	7.5	1.0	1.0	1.0
11	15.0	14.5	15.0	6.0	4.5	5.5	7.5	7.0	7.0	2.0	1.0	1.5
12	15.5	13.5	14.5	6.5	5.0	6.0	---	---	---	---	---	---
13	16.0	14.0	15.0	7.5	5.0	6.5	---	---	---	---	---	---
14	16.5	15.0	15.5	9.0	6.5	8.0	---	---	---	---	---	---
15	16.0	14.0	15.0	10.0	7.5	9.0	---	---	---	---	---	---
16	15.5	13.5	14.5	10.5	8.5	9.5	---	---	---	---	---	---
17	14.5	12.5	13.5	8.5	7.5	8.5	---	---	---	---	---	---
18	13.0	12.5	12.5	8.0	7.0	7.5	---	---	---	---	---	---
19	13.0	11.5	12.5	8.5	7.0	8.0	1.0	1.0	1.0	---	---	---
20	12.5	11.5	12.0	7.5	6.0	6.5	2.5	1.0	1.5	---	---	---
21	12.5	11.0	12.0	7.5	5.5	6.5	6.5	2.5	4.5	---	---	---
22	12.5	10.5	12.0	8.5	6.5	7.5	6.0	2.5	4.0	3.5	3.0	3.0
23	13.0	11.0	12.0	9.0	7.5	8.0	2.5	2.0	2.0	4.0	2.5	3.0
24	13.5	11.0	12.5	9.0	7.5	8.5	2.0	1.0	1.5	4.0	3.0	3.5
25	14.0	12.0	13.0	9.5	8.5	9.0	1.5	1.0	1.0	3.5	3.0	3.0
26	13.0	12.0	12.5	9.0	8.0	8.5	5.0	1.5	3.0	3.5	2.5	3.0
27	13.5	12.0	12.5	8.5	8.0	8.5	---	---	---	6.5	3.5	5.0
28	12.0	11.0	11.5	10.0	8.0	9.0	---	---	---	6.0	5.0	5.5
29	11.5	11.0	11.0	10.0	9.0	9.5	---	---	---	5.5	4.5	5.0
30	12.5	11.0	12.0	9.0	7.5	8.5	---	---	---	5.0	4.5	5.0
31	12.5	12.0	12.5	---	---	---	---	---	---	5.5	4.0	5.0
MONTH	18.5	10.5	14.0	12.5	4.5	8.0	---	---	---	---	---	---

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	5.0	3.0	4.0	5.0	4.0	4.5	7.0	4.5	6.0	15.5	14.0	14.5
2	3.0	1.5	2.5	4.5	3.5	4.0	10.0	4.5	7.0	14.0	12.5	13.5
3	1.5	1.0	1.5	5.0	3.5	4.0	8.5	5.5	7.0	13.0	12.0	12.5
4	1.5	1.0	1.5	7.5	4.5	6.0	10.5	6.5	9.0	13.5	11.5	12.5
5	---	---	---	8.0	7.5	7.5	10.5	9.5	10.0	15.5	11.5	13.5
6	1.0	0.5	1.0	8.0	6.0	7.0	10.0	8.5	9.0	13.5	12.0	13.0
7	1.5	1.0	1.0	9.0	6.5	7.5	10.0	7.0	8.5	14.0	12.5	13.0
8	1.0	0.5	1.0	8.0	7.0	7.5	10.0	9.0	9.5	15.5	11.5	13.0
9	1.5	0.5	1.0	6.5	5.5	6.0	9.0	6.5	7.5	14.0	12.5	13.0
10	1.0	0.5	1.0	6.5	5.0	5.5	6.5	5.5	6.0	13.0	12.0	12.5
11	1.5	0.5	1.0	6.5	4.5	5.5	8.5	5.5	7.0	15.5	12.0	13.0
12	1.5	0.5	1.0	6.0	4.5	5.0	10.0	8.0	9.0	13.5	13.0	13.0
13	2.5	1.0	2.0	5.0	3.0	4.0	9.5	8.5	9.0	15.5	13.0	14.0
14	3.0	2.0	2.5	5.0	2.5	4.0	10.5	8.0	9.0	16.0	13.0	14.5
15	2.0	1.0	1.5	6.0	3.5	5.0	13.0	10.0	12.0	18.5	14.5	16.5
16	2.0	1.0	1.5	6.5	5.0	5.5	12.0	9.5	11.0	20.0	15.5	18.5
17	2.0	1.5	1.5	7.0	5.5	6.5	12.0	10.0	11.0	21.0	14.0	18.5
18	2.5	1.5	2.0	6.0	5.0	5.5	12.0	9.5	11.0	21.0	19.5	20.5
19	3.0	1.5	2.0	6.0	4.5	5.5	11.5	9.5	11.0	20.5	19.0	19.5
20	3.5	2.5	3.0	7.0	5.5	6.5	11.0	9.0	10.0	20.0	17.5	18.5
21	3.5	2.5	3.0	7.0	5.5	6.0	12.5	10.0	11.0	19.0	17.0	17.5
22	5.5	3.0	3.5	6.5	5.5	6.0	13.5	12.0	13.0	20.5	16.5	18.5
23	5.5	4.0	5.0	6.5	5.5	6.0	13.5	13.0	13.5	19.0	16.5	18.0
24	3.5	2.5	3.0	8.0	5.0	6.5	13.0	10.0	12.0	16.5	15.5	16.0
25	3.0	2.5	2.5	6.5	5.0	6.0	11.5	9.5	11.0	16.5	15.0	16.0
26	5.0	2.0	3.0	6.5	4.5	5.5	11.5	10.5	11.0	16.5	15.5	16.0
27	3.5	2.0	3.0	7.0	5.0	6.0	12.5	10.5	11.5	15.5	14.0	15.0
28	4.0	2.5	3.5	7.0	5.0	6.0	13.0	11.5	12.5	---	---	---
29	---	---	---	5.5	4.5	5.0	15.5	12.5	14.0	---	---	---
30	---	---	---	4.5	4.0	4.0	15.5	14.5	15.0	---	---	---
31	---	---	---	4.5	4.5	4.5	---	---	---	---	---	---
MONTH	5.5	0.5	2.0	9.0	2.5	5.5	15.5	4.5	10.0	21.0	11.5	15.5

01116500 PAWTUXET RIVER AT CRANSTON, R.I.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974.--Continued

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	24.0	20.0	21.5	25.0	23.5	24.5	25.5	23.5	24.5
2	---	---	---	24.5	21.5	23.0	25.5	24.0	24.5	25.0	22.5	23.5
3	---	---	---	24.5	22.5	23.5	25.5	24.5	25.0	22.5	21.0	21.5
4	---	---	---	27.0	23.5	25.0	26.0	24.5	25.5	21.5	20.5	21.0
5	---	---	---	28.0	24.5	25.5	26.0	25.0	25.5	21.5	19.5	20.5
6	21.5	19.5	24.5	26.0	24.0	24.5	25.5	24.5	25.0	20.5	19.5	20.0
7	21.0	18.5	19.5	26.5	24.0	25.0	25.0	24.0	24.5	19.5	19.0	19.0
8	22.0	18.0	20.0	27.5	24.5	25.5	25.0	23.0	24.0	20.0	18.5	19.5
9	23.5	19.5	21.5	27.0	24.5	25.5	24.5	23.5	24.0	21.5	19.5	20.5
10	25.5	21.5	23.5	27.5	25.5	26.0	23.5	22.0	23.0	23.5	20.0	21.5
11	25.0	23.0	24.0	25.5	24.5	25.0	23.0	21.0	22.5	24.0	22.0	23.0
12	23.0	21.0	22.5	24.5	21.0	24.0	24.0	22.0	23.0	24.5	22.5	24.0
13	23.0	20.0	21.5	25.0	23.0	24.0	24.0	22.5	23.0	---	---	---
14	23.0	19.5	21.0	25.5	23.0	24.5	24.5	22.5	24.0	---	---	---
15	22.5	20.0	21.0	26.0	24.5	25.0	25.0	22.5	24.0	---	---	---
16	21.5	20.5	21.0	25.5	24.5	25.0	25.0	22.5	24.0	---	---	---
17	21.5	20.0	20.5	25.0	23.5	24.0	24.5	23.5	24.0	---	---	---
18	23.0	21.0	22.0	24.5	23.0	24.0	25.0	23.5	24.5	20.5	19.0	19.5
19	23.5	21.5	22.5	24.5	23.0	24.0	25.5	23.5	24.5	21.0	19.5	20.0
20	23.0	20.5	22.0	24.0	22.5	23.0	26.0	24.0	25.0	22.0	20.0	21.0
21	23.0	20.0	22.5	23.0	21.0	22.5	26.0	24.5	25.5	21.5	15.5	20.0
22	23.0	20.5	22.5	23.0	21.5	22.5	26.0	24.0	25.0	17.0	15.0	16.0
23	22.5	20.5	21.5	23.5	22.0	23.0	26.0	25.0	25.5	17.5	15.0	16.0
24	22.0	20.0	21.0	23.0	21.5	22.5	26.5	25.0	26.0	18.5	15.5	16.5
25	21.0	18.5	19.5	23.0	21.5	22.5	26.5	25.0	25.5	19.0	16.5	17.5
26	18.5	17.5	18.0	23.0	21.5	22.5	26.0	24.5	25.5	19.5	18.0	19.0
27	18.0	17.0	17.5	23.0	21.5	22.5	25.0	24.0	24.5	19.5	16.5	18.0
28	19.0	17.0	18.0	23.0	22.0	22.5	25.5	24.5	25.0	17.5	16.0	16.5
29	21.0	18.0	19.5	23.5	22.5	23.0	25.5	24.5	25.0	16.5	14.5	15.5
30	22.0	18.5	20.5	24.0	22.5	23.5	24.5	23.5	24.0	15.0	12.5	14.0
31	---	---	---	24.5	23.0	24.0	24.5	23.0	23.5	---	---	---
MONTH	25.5	17.0	21.0	28.0	20.0	24.0	26.5	21.0	24.5	25.5	12.5	19.5
YEAR	28.0	0.5	13.0									

01117350 CHIPUXET RIVER AT WEST KINGSTON, R.I.

LOCATION.--Lat 41°28'56", long 71°33'06", Washington County, two-parameter monitor at gaging station on right bank at West Kingston, at downstream side of bridge on State Highway 138, 1.5 mi (2.4 km) west of Kingston, and 3.1 mi (5.0 km) upstream from Worden Pond.

DRAINAGE AREA.--9.99 mi² (25.87 km²).

PERIOD OF RECORD.--Chemical analyses: October 1973 to September 1974.
Water temperatures: October 1973 to September 1974.

EXTREMES.--Current year:
Specific conductance: Maximum, 143 micromhos Oct. 30; minimum, 53 micromhos Apr. 19.
Water temperatures: Maximum, 29.0°C July 9, 10; minimum, freezing point Feb. 5.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	129	123	126	113	112	112	97	94	95
2	---	---	---	126	122	124	113	112	112	100	95	97
3	---	---	---	129	122	126	113	112	113	100	97	100
4	---	---	---	128	120	122	113	111	112	99	95	97
5	---	---	---	120	118	119	113	112	112	100	97	99
6	---	---	---	119	117	118	115	112	113	100	93	96
7	---	---	---	118	117	118	113	111	113	95	93	94
8	---	---	---	118	117	118	114	112	113	96	94	95
9	119	117	118	119	117	118	115	112	113	96	94	95
10	122	119	120	118	117	118	114	111	113	96	94	95
11	122	120	121	118	117	118	112	111	111	95	93	94
12	124	121	122	119	117	118	113	111	112	94	92	93
13	125	122	124	119	118	118	115	112	114	96	94	95
14	125	123	124	120	118	119	114	112	114	99	96	98
15	125	123	124	120	118	119	114	112	113	101	99	100
16	125	123	124	120	118	119	114	110	112	101	99	100
17	126	123	125	118	118	118	111	99	104	102	100	101
18	127	125	126	119	118	118	106	103	105	104	102	103
19	129	126	127	119	118	119	106	101	104	104	99	101
20	129	127	128	119	118	119	101	99	100	99	96	98
21	132	129	130	119	118	119	100	96	99	97	95	96
22	133	131	132	120	118	119	99	98	98	96	92	95
23	135	132	133	120	118	119	98	97	97	94	91	92
24	134	131	132	120	118	119	98	96	97	91	88	89
25	131	128	130	123	117	120	98	96	97	88	88	88
26	131	129	130	120	117	118	97	94	96	89	88	88
27	134	131	133	120	118	119	98	93	96	90	88	89
28	133	132	133	120	115	117	97	93	96	90	88	90
29	136	133	134	117	113	114	96	92	94	90	87	89
30	143	134	138	113	112	113	97	93	95	88	87	88
31	134	126	129	---	---	---	99	96	97	91	88	89
MONTH	---	---	---	129	112	119	115	92	106	104	87	95

01117350 CHIPUXET RIVER AT WEST KINGSTON, R.I.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974.--Continued

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	93	91	92	98	97	97	96	94	95	101	83	96
2	95	93	94	98	97	98	94	91	93	101	77	98
3	97	95	97	99	98	99	96.	93	94	103	79	99
4	100	98	99	101	99	99	93	93	93	101	94	99
5	102	99	101	100	99	100	93	89	92	102	74	96
6	105	102	103	102	99	100	92	90	91	103	79	99
7	101	100	100	102	100	101	93	91	92	104	89	99
8	100	99	99	103	101	102	93	92	93	105	87	101
9	99	99	99	103	102	103	94	89	91	101	100	100
10	100	99	100	104	103	103	90	85	88	101	98	100
11	101	99	100	105	103	103	87	76	86	98	77	92
12	102	100	101	106	103	104	86	73	85	98	80	93
13	103	100	102	105	103	104	86	77	85	100	73	96
14	101	99	100	105	103	104	87	67	83	99	83	98
15	100	99	100	106	103	104	88	82	86	101	89	99
16	102	100	101	107	104	105	88	84	87	102	101	101
17	101	99	100	105	97	99	88	81	86	104	99	103
18	101	100	100	97	95	96	90	83	88	105	103	104
19	109	100	102	95	94	95	90	53	83	106	89	103
20	108	95	98	96	94	95	92	81	90	108	92	105
21	95	94	94	96	92	94	94	87	92	110	98	107
22	95	93	94	93	90	92	95	86	94	111	95	105
23	95	91	93	90	89	89	96	92	95	109	98	106
24	96	93	94	89	88	89	96	86	93	108	92	96
25	93	91	93	90	88	89	97	92	95	107	91	101
26	94	92	93	92	90	91	97	93	96	106	95	102
27	96	94	95	94	92	93	98	93	96	105	83	93
28	97	95	96	95	93	94	100	95	98	106	80	95
29	---	---	---	97	95	96	102	98	100	105	92	100
30	---	---	---	97	96	97	101	83	97	105	92	100
31	---	---	---	97	94	95	---	---	---	106	96	104
MONTH	109	91	98	107	88	98	102	53	91	111	73	100

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	108	105	106	112	92	106	127	124	125	130	129	129
2	105	101	104	113	99	110	127	124	125	134	127	130
3	107	89	103	114	112	113	128	126	127	127	127	127
4	108	92	105	115	90	110	128	127	127	137	121	125
5	106	99	104	116	113	114	128	126	127	124	121	123
6	108	92	105	114	92	112	127	123	125	123	117	122
7	109	97	105	---	---	---	125	123	124	128	112	125
8	110	92	105	---	---	---	126	103	124	126	124	125
9	113	85	101	114	103	112	126	124	125	126	121	126
10	115	84	104	115	106	112	126	125	125	127	123	126
11	115	103	111	115	98	110	127	124	125	127	127	127
12	116	98	112	115	101	113	128	126	127	129	118	124
13	115	87	108	117	98	109	129	127	128	131	131	131
14	119	93	110	118	108	116	130	128	129	132	120	128
15	118	100	114	123	103	117	131	128	129	132	125	129
16	117	96	112	121	118	120	130	127	129	132	131	132
17	115	99	118	119	115	117	130	128	129	136	123	133
18	112	94	109	117	115	117	131	108	128	135	121	129
19	113	106	109	118	109	116	133	129	131	135	120	130
20	111	107	108	118	111	117	131	129	130	135	133	134
21	111	98	108	120	117	118	132	130	130	134	131	134
22	111	97	106	120	118	118	132	130	131	136	123	130
23	108	91	105	120	108	119	131	131	131	129	128	129
24	108	99	105	120	115	119	132	131	131	128	127	127
25	111	100	107	119	116	118	131	130	130	---	---	---
26	110	98	106	120	106	119	132	115	130	---	---	---
27	108	90	106	121	119	121	131	130	131	127	126	127
28	109	107	108	123	121	122	133	127	132	---	---	---
29	109	80	102	123	122	123	133	130	132	122	116	120
30	110	92	102	124	103	123	134	128	131	---	---	---
31	---	---	---	125	123	124	132	129	130	---	---	---
MONTH	119	80	107	125	90	116	134	103	128	137	112	128
YEAR	143	53	109									

01117350 CHIPUXET RIVER AT WEST KINGSTON, R.I.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	12.5	11.0	12.0	7.5	6.0	6.5	4.5	4.0	4.0
2	---	---	---	12.5	10.0	11.5	6.5	5.0	5.5	4.0	3.0	3.5
3	---	---	---	12.5	10.0	11.5	6.0	4.5	5.5	3.5	1.5	3.0
4	---	---	---	11.0	9.0	10.0	7.5	5.5	6.0	3.0	1.5	2.0
5	---	---	---	10.0	8.5	9.5	9.0	6.0	7.5	3.5	2.0	2.5
6	---	---	---	8.5	7.5	8.0	10.0	7.0	9.0	3.5	2.0	3.0
7	---	---	---	9.5	7.0	8.0	7.5	6.0	6.5	4.0	2.5	3.0
8	---	---	---	8.5	6.5	7.5	6.0	5.5	6.0	3.5	2.0	2.5
9	16.5	15.5	16.0	8.5	7.0	8.0	8.0	5.5	6.5	2.5	1.5	2.0
10	16.0	14.0	15.0	7.0	5.5	6.5	8.0	6.0	7.0	2.5	2.0	2.0
11	15.5	13.5	14.5	7.0	4.5	6.0	6.5	5.5	6.0	3.0	2.5	2.5
12	15.5	12.5	14.0	7.5	5.5	6.5	6.5	4.5	5.5	3.0	1.5	2.0
13	16.0	13.5	15.0	8.0	6.0	7.0	6.0	4.0	5.0	2.5	1.0	1.5
14	17.0	15.0	16.0	9.5	7.5	8.5	7.0	5.5	6.5	2.5	1.0	2.0
15	15.5	13.0	14.5	10.0	7.0	8.5	6.5	5.0	5.5	3.0	2.0	2.5
16	15.0	13.0	14.0	10.0	8.0	9.0	5.0	4.0	4.5	3.0	2.0	2.5
17	13.5	11.5	12.5	7.5	6.0	7.0	5.5	3.5	4.5	3.0	1.5	2.0
18	12.5	11.0	12.0	8.0	5.5	6.5	4.5	2.5	3.5	2.5	1.0	2.0
19	12.5	10.5	11.5	8.0	6.5	7.5	2.5	2.0	2.5	3.5	2.5	3.0
20	12.0	11.5	11.5	6.5	5.0	6.0	4.0	2.0	3.0	3.5	2.0	2.5
21	12.5	10.0	11.5	7.0	4.5	5.5	6.0	4.5	5.5	3.5	2.5	3.0
22	12.5	10.0	11.5	8.5	7.0	7.5	4.5	2.5	3.5	4.0	2.5	3.0
23	13.5	10.5	12.0	9.0	7.5	8.0	3.5	2.5	3.0	4.0	2.5	3.0
24	14.0	11.5	13.0	9.0	7.0	8.0	3.0	2.0	2.5	3.5	2.5	3.0
25	14.0	12.5	13.5	9.0	8.5	9.0	3.0	1.5	2.5	4.0	3.0	3.5
26	13.0	11.5	12.0	8.0	7.0	7.5	5.0	3.0	4.5	4.5	2.5	3.5
27	13.5	11.0	12.5	8.0	7.5	7.5	6.0	5.0	5.5	6.0	4.0	5.0
28	12.0	10.0	11.0	10.5	8.0	9.0	5.5	4.0	5.0	5.0	4.0	4.5
29	11.5	9.5	10.5	10.0	7.5	8.5	5.0	4.0	4.5	6.0	4.5	5.0
30	13.5	11.5	12.5	8.0	7.0	7.5	5.5	4.0	5.0	6.0	4.5	5.0
31	13.0	11.5	12.0	---	---	---	4.0	4.0	4.0	6.0	4.5	5.0
MONTH	---	---	---	12.5	4.5	8.0	10.0	1.5	5.0	6.0	1.0	3.0

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	5.0	3.5	4.0	5.5	4.0	4.5	9.0	5.0	6.5	19.5	16.0	17.5
2	3.5	1.5	2.5	4.5	3.5	4.0	7.5	6.0	6.5	18.5	14.0	16.0
3	2.0	1.5	1.5	4.5	4.0	4.5	10.0	5.0	7.5	15.0	14.0	14.5
4	1.5	1.0	1.0	8.0	5.0	6.0	9.5	8.0	8.5	18.0	13.5	15.5
5	2.0	0.0	1.0	7.5	6.5	7.0	9.5	8.5	9.0	17.5	13.5	15.0
6	2.5	0.5	1.0	9.0	5.5	7.0	9.0	7.5	8.5	15.5	14.0	14.5
7	2.0	1.0	1.5	9.0	6.0	7.5	11.0	6.5	8.5	17.5	14.0	15.5
8	1.5	1.0	1.0	8.0	6.5	7.0	10.5	7.5	9.0	17.5	13.5	15.0
9	2.5	1.0	1.5	7.0	6.5	6.5	8.5	7.0	7.5	16.5	13.0	14.5
10	2.5	0.5	1.5	8.5	5.5	7.0	8.0	6.0	7.0	15.0	14.0	14.5
11	2.5	1.0	1.5	8.5	5.0	6.5	10.5	6.0	8.0	17.0	13.5	15.5
12	3.0	1.0	1.5	8.5	5.0	6.5	11.0	8.0	9.5	15.0	14.0	14.5
13	3.5	1.5	2.5	8.0	4.0	5.5	9.5	9.0	9.5	16.5	14.0	15.0
14	3.5	1.5	2.5	8.5	4.0	6.0	10.5	8.5	9.5	18.0	13.5	15.5
15	3.5	1.5	2.0	8.5	4.5	6.5	13.5	10.0	11.5	19.5	15.0	17.0
16	4.0	1.5	2.5	8.0	6.0	7.0	13.5	10.0	11.5	21.0	16.0	18.0
17	3.5	1.5	2.5	7.5	5.5	6.5	14.0	10.0	11.5	22.0	17.5	19.5
18	4.0	2.0	2.5	7.5	5.0	6.0	15.0	10.5	12.5	22.0	18.0	20.0
19	3.5	2.0	2.5	8.0	5.0	6.0	12.5	10.5	11.5	22.0	17.0	19.0
20	4.0	2.5	3.5	9.0	5.5	7.0	14.0	9.5	11.5	21.5	16.5	18.5
21	5.0	2.0	3.0	7.5	5.5	6.0	15.0	10.5	12.5	19.5	16.0	17.5
22	4.5	2.5	4.0	8.0	5.0	6.5	15.0	12.0	13.5	22.0	17.0	19.0
23	5.0	2.5	4.0	7.5	5.5	6.5	16.0	13.0	14.5	19.0	16.5	17.5
24	4.5	2.0	3.0	8.5	6.0	7.0	14.5	12.0	13.5	17.0	16.0	16.0
25	3.5	3.0	3.0	7.5	4.5	6.0	14.5	11.0	12.5	18.5	15.5	17.0
26	5.0	2.5	3.5	8.0	4.5	6.0	14.0	11.0	12.5	17.5	16.0	16.5
27	5.0	2.0	3.5	8.5	4.5	6.0	16.0	11.0	13.0	16.0	14.0	15.0
28	5.5	3.0	4.0	9.0	5.0	6.5	15.5	12.0	14.0	18.0	13.5	15.5
29	---	---	---	6.0	4.0	5.0	17.5	13.0	15.0	15.5	15.0	15.0
30	---	---	---	5.5	4.5	5.0	18.5	15.0	16.5	17.5	14.5	16.0
31	---	---	---	6.0	5.5	5.5	---	---	---	20.0	15.5	17.5
MONTH	5.5	0.0	2.5	9.0	3.5	6.0	18.5	5.0	10.5	22.0	13.0	16.5

01117350 CHIPUXET RIVER AT WEST KINGSTON, R.I.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974.--Continued

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	18.0	17.0	17.5	24.0	19.5	21.5	26.5	22.0	24.0	25.5	22.5	24.0
2	18.0	16.5	17.0	25.0	20.5	22.5	26.0	22.0	24.0	24.5	21.0	22.5
3	21.5	16.0	18.5	24.5	21.5	23.0	25.5	23.5	24.5	21.5	20.0	20.5
4	22.0	17.0	19.0	27.5	22.5	25.0	26.0	23.5	24.5	21.5	19.5	20.5
5	22.0	18.0	20.0	28.0	24.0	25.5	25.5	23.0	24.5	22.0	19.0	20.0
6	23.0	18.0	20.5	26.5	24.0	25.0	25.5	22.0	23.5	20.0	18.5	19.0
7	23.0	17.5	20.0	---	---	---	23.5	22.0	22.5	18.5	17.5	18.0
8	23.5	18.0	20.5	---	---	---	25.0	20.5	22.5	21.5	17.0	19.0
9	25.0	19.5	22.0	29.0	26.0	28.0	24.5	22.0	23.0	22.0	18.5	20.0
10	26.5	21.5	24.0	29.0	25.5	27.0	24.0	20.5	22.0	24.0	19.5	21.5
11	26.0	23.0	24.0	27.0	24.0	25.5	24.0	19.0	21.5	23.5	20.5	22.0
12	24.5	21.5	23.0	25.5	22.0	24.0	24.5	19.5	22.0	24.0	21.5	22.5
13	25.0	19.5	22.0	26.0	22.0	24.0	25.0	20.0	22.5	25.5	22.0	23.5
14	24.5	19.0	22.0	27.0	22.5	24.5	25.0	21.0	23.0	24.0	22.0	23.0
15	23.5	19.5	21.5	27.0	23.5	25.0	25.5	21.5	23.5	22.5	20.0	21.0
16	22.0	20.5	21.5	25.5	24.0	25.0	24.0	20.5	22.5	21.5	18.0	20.0
17	22.5	20.0	21.5	26.0	22.5	24.0	23.5	21.5	22.5	20.5	17.5	19.5
18	25.5	21.0	23.0	25.5	22.5	24.0	25.0	22.0	23.5	21.0	18.5	20.0
19	25.5	21.0	23.0	25.0	22.5	23.5	25.5	21.5	23.5	20.5	19.5	20.0
20	24.0	22.0	22.5	24.5	21.5	23.0	25.5	21.5	23.5	21.5	20.0	20.5
21	23.5	21.5	22.5	25.0	20.5	23.0	26.5	22.5	24.5	21.5	20.5	21.0
22	25.0	21.5	23.0	24.5	20.5	22.5	26.0	22.0	24.0	22.0	19.0	20.5
23	23.0	21.0	22.0	25.5	21.0	23.0	25.0	23.5	24.5	20.5	18.0	19.5
24	23.0	20.5	21.5	24.0	20.5	22.5	26.5	23.5	25.0	18.5	15.5	17.5
25	21.0	18.0	19.5	22.5	21.0	22.0	25.5	22.5	24.0	18.5	15.5	17.0
26	18.0	17.5	17.5	23.5	20.0	21.5	25.0	22.5	23.5	18.5	16.5	17.5
27	19.0	17.0	18.0	22.0	20.5	21.5	24.0	22.0	23.0	19.5	16.0	18.0
28	20.5	17.0	18.5	24.0	21.0	22.5	24.0	22.5	23.5	20.0	17.5	19.0
29	20.5	18.5	19.5	23.5	22.0	22.5	24.0	22.5	23.0	20.0	19.0	19.5
30	23.0	18.0	20.5	25.5	22.0	23.5	24.0	21.5	22.5	20.0	17.5	18.5
31	---	---	---	26.0	22.5	24.5	24.0	21.5	22.5	---	---	---
MONTH	26.5	16.0	21.0	29.0	19.5	23.5	26.5	19.0	23.5	25.5	15.5	20.0
YEAR	29.0	0.0	12.5									

01123990 QUINEBAUG RIVER NEAR DUDLEY, MASS.

LOCATION.--Lat 42°01'40", long 71°57'22", Worcester County, multiple-parameter monitor on right bank, 50 ft (15 m) upstream from bridge on State Highway 131, 0.2 mi (0.3 km) upstream from Massachusetts-Connecticut State line, 0.4 mi (0.6 km) upstream from gaging station at Quinebaug, Conn., and 2.0 mi (3.2 km) southwest of Dudley, Mass.

DRAINAGE AREA.--156 mi² (404 km²) at gage at Quinebaug, Conn.

PERIOD OF RECORD.--Chemical analyses: October 1968 to current year (no winter record in water years 1973, 1974).
Water temperatures: October 1968 to current year (no winter record in water years 1973, 1974).
Prior to October 1971, published as "at Quinebaug, Conn."

EXTREMES.--Current year:
Dissolved oxygen: Maximum not determined; minimum recorded, 0.4 mg/l Aug. 3.
Water temperatures: Maximum not determined; minimum, probably freezing point on many days during winter period.

Period of record:
Specific conductance (1968-72): Maximum recorded, 393 micromhos/cm Sept. 24, 1970; minimum, 56 micromhos/cm Feb. 20, 1972.
pH (1968-72): Maximum, 9.0 July 13, 16, 1971; minimum, 4.9 July 18, 1970.
Dissolved oxygen (1968-74): Maximum recorded, 19.6 mg/l Feb. 12, 1972; minimum, 0.4 mg/l Aug. 28, 1970, Aug. 3, 1974.
Water temperatures (1968-74): Maximum recorded, 32.5°C July 29, 1970; minimum, freezing point on many days during winter periods.

REMARKS.--Figures of daily discharge for gaging station at Quinebaug, Conn. (sta 01124000) are used for this site.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C) , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	137	128	132	172	165	167	116	109	112
2	150	139	143	173	112	156	119	109	113
3	146	131	139	159	110	137	---	---	---
4	134	121	128	160	139	153	---	---	---
5	123	115	119	---	---	---	---	---	---
6	124	111	117	---	---	---	---	---	---
7	117	111	114	---	---	---	---	---	---
8	115	110	112	---	---	---	---	---	---
9	118	111	114	---	---	---	---	---	---
10	121	110	117	---	---	---	---	---	---
11	138	117	129	---	---	---	---	---	---
12	136	126	133	---	---	---	---	---	---
13	138	126	131	---	---	---	---	---	---
14	135	126	132	---	---	---	---	---	---
15	138	130	135	---	---	---	104	100	103
16	143	133	138	---	---	---	111	100	103
17	146	140	142	---	---	---	109	104	107
18	158	150	151	---	---	---	114	107	110
19	160	155	158	---	---	---	112	105	109
20	172	153	158	---	---	---	115	108	111
21	158	149	156	---	---	---	122	115	119
22	157	147	154	---	---	---	130	120	124
23	156	146	151	---	---	---	141	120	125
24	156	149	153	---	---	---	149	122	132
25	160	154	158	---	---	---	134	127	130
26	178	147	163	---	---	---	125	116	120
27	154	143	149	---	---	---	118	112	115
28	155	149	152	---	---	---	120	112	115
29	167	151	161	---	---	---	120	111	117
30	165	148	158	---	---	---	---	---	---
31	166	157	162	---	---	---	126	120	123
MONTH	178	110	141	---	---	---	---	---	---

01123990 QUINEBAUG RIVER NEAR DUDLEY, MASS.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974.--Continued

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	131	120	125	149	139	143	191	180	186	---	---	---
2	122	111	116	154	137	146	226	180	206	---	---	---
3	124	112	116	154	143	149	230	215	220	---	---	---
4	125	116	122	196	135	149	219	199	208	---	---	---
5	124	116	120	158	145	150	202	169	180	---	---	---
6	125	116	121	145	127	137	179	173	175	---	---	---
7	126	118	122	142	135	138	---	---	---	---	---	---
8	144	124	136	138	133	136	---	---	---	---	---	---
9	143	135	140	139	132	136	177	173	175	---	---	---
10	---	---	---	139	125	132	181	171	176	---	---	---
11	---	---	---	135	122	130	---	---	---	---	---	---
12	---	---	---	136	128	132	---	---	---	---	---	---
13	182	145	167	141	132	137	---	---	---	---	---	---
14	175	161	169	142	130	137	---	---	---	---	---	---
15	168	154	160	139	131	135	---	---	---	---	---	---
16	178	135	157	132	126	129	---	---	---	---	---	---
17	180	107	141	136	128	132	---	---	---	155	145	149
18	111	105	108	140	134	137	---	---	---	156	148	153
19	119	108	114	141	133	137	---	---	---	157	144	150
20	153	117	137	155	127	136	---	---	---	150	138	145
21	153	144	149	262	159	213	---	---	---	155	131	145
22	156	147	150	280	249	266	---	---	---	135	115	125
23	148	133	143	267	138	212	---	---	---	139	135	137
24	137	132	135	250	201	222	---	---	---	138	117	125
25	152	136	144	---	---	---	---	---	---	120	115	118
26	162	147	154	219	185	212	---	---	---	123	114	118
27	147	138	141	221	207	213	---	---	---	129	120	124
28	145	127	138	215	194	200	---	---	---	128	122	125
29	151	139	144	196	179	185	---	---	---	118	68	94
30	150	140	144	183	178	180	---	---	---	115	108	113
31	---	---	---	205	179	194	---	---	---	---	---	---
MONTH	182	105	138	280	122	162	---	---	---	---	---	---
YEAR	280	68	144									

PH (UNITS), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.9	6.7	6.8	6.4	6.2	6.3	---	---	---
2	6.8	6.6	6.7	6.4	6.1	6.3	---	---	---
3	6.9	6.7	6.8	6.4	6.3	6.3	---	---	---
4	7.0	6.6	6.8	6.4	6.3	6.3	---	---	---
5	6.7	6.6	6.6	---	---	---	---	---	---
6	6.9	6.6	6.8	---	---	---	---	---	---
7	7.0	6.8	6.9	---	---	---	---	---	---
8	7.1	6.8	6.9	---	---	---	---	---	---
9	7.1	6.9	7.0	---	---	---	---	---	---
10	7.0	6.7	6.9	---	---	---	---	---	---
11	7.0	6.2	6.6	---	---	---	---	---	---
12	7.0	6.7	6.8	---	---	---	---	---	---
13	7.0	6.6	6.8	---	---	---	---	---	---
14	7.1	6.7	6.9	---	---	---	---	---	---
15	7.1	6.7	6.9	---	---	---	7.3	7.0	7.2
16	7.0	6.7	6.9	---	---	---	7.3	6.9	7.1
17	7.0	6.8	6.9	---	---	---	7.2	6.9	7.1
18	---	---	---	---	---	---	7.2	6.8	7.0
19	6.7	6.5	6.6	---	---	---	7.3	6.9	7.1
20	6.8	6.5	6.6	---	---	---	7.3	6.8	7.1
21	6.7	6.4	6.5	---	---	---	7.1	6.8	7.0
22	6.7	6.5	6.6	---	---	---	6.9	6.5	6.8
23	6.8	6.5	6.6	---	---	---	6.8	6.5	6.6
24	6.7	6.5	6.6	---	---	---	6.9	6.5	6.8
25	6.6	6.4	6.4	---	---	---	7.1	6.8	7.0
26	6.6	6.2	6.4	---	---	---	7.1	6.8	6.9
27	6.4	6.2	6.3	---	---	---	7.0	6.8	6.9
28	6.3	6.0	6.2	---	---	---	7.1	6.7	6.9
29	6.3	6.1	6.1	---	---	---	6.9	6.6	6.7
30	6.5	6.3	6.4	---	---	---	---	---	---
31	6.5	6.3	6.4	---	---	---	6.9	6.5	6.7
MONTH	7.1	6.0	6.7	---	---	---	---	---	---

01123990 QUINEBAUG RIVER NEAR DUDLEY, MASS.--Continued

PH (UNITS), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974.--Continued

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	7.1	6.6	6.9	---	---	---	7.4	6.8	7.0	---	---	---
2	7.2	6.8	7.0	---	---	---	7.3	6.6	6.9	---	---	---
3	6.9	6.3	6.6	---	---	---	7.4	6.7	7.0	---	---	---
4	6.5	6.3	6.4	---	---	---	7.3	6.9	7.0	---	---	---
5	7.0	6.4	6.6	---	---	---	7.1	6.5	6.9	---	---	---
6	7.1	6.7	6.8	---	---	---	7.0	6.5	6.7	---	---	---
7	7.1	6.7	6.9	---	---	---	---	---	---	---	---	---
8	7.4	6.6	7.0	---	---	---	---	---	---	---	---	---
9	7.7	7.0	7.3	---	---	---	6.7	6.2	6.4	---	---	---
10	---	---	---	---	---	---	6.8	6.2	6.4	---	---	---
11	---	---	---	7.5	6.9	7.3	---	---	---	---	---	---
12	---	---	---	7.5	6.9	7.1	---	---	---	---	---	---
13	7.1	6.5	6.9	7.7	6.8	7.2	---	---	---	---	---	---
14	7.1	6.4	6.7	7.8	6.8	7.2	---	---	---	---	---	---
15	7.1	6.5	6.7	7.4	6.8	7.0	---	---	---	---	---	---
16	6.9	6.6	6.7	6.9	6.5	6.7	---	---	---	---	---	---
17	7.3	6.8	7.0	6.6	6.3	6.5	---	---	---	---	---	---
18	7.1	6.8	6.9	6.6	6.2	6.3	---	---	---	---	---	---
19	7.0	6.5	6.8	6.7	6.3	6.4	---	---	---	---	---	---
20	6.5	5.4	5.9	6.8	6.3	6.5	---	---	---	---	---	---
21	5.7	5.5	5.6	7.0	6.4	6.7	---	---	---	---	---	---
22	6.1	5.7	5.8	7.2	6.6	6.8	---	---	---	---	---	---
23	6.0	5.9	6.0	6.9	6.5	6.7	---	---	---	7.2	6.8	7.0
24	6.3	5.8	6.1	6.8	6.4	6.6	---	---	---	7.1	6.6	6.8
25	6.0	5.9	6.0	6.5	6.1	6.3	---	---	---	7.1	6.5	6.7
26	6.3	6.2	6.3	7.4	6.3	6.8	---	---	---	6.7	6.4	6.6
27	6.4	6.3	6.4	7.1	6.5	6.7	---	---	---	6.7	6.4	6.5
28	6.5	6.4	6.5	7.3	6.8	7.0	---	---	---	---	---	---
29	---	---	---	7.3	6.7	7.0	---	---	---	---	---	---
30	---	---	---	7.2	6.7	6.9	---	---	---	---	---	---
31	---	---	---	7.2	6.7	6.9	---	---	---			
MONTH	7.7	5.4	6.6	---	---	---	---	---	---	---	---	---
YEAR	7.8	5.4	6.7									

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN
1	7.7	6.5	7.0	---	---	---
2	---	---	---	---	---	---
3	---	---	---	---	---	---
4	8.0	7.1	7.5	---	---	---
5	7.8	7.0	7.3	---	---	---
6	8.5	7.3	7.9	---	---	---
7	9.0	7.9	8.4	---	---	---
8	9.2	8.2	8.6	---	---	---
9	9.0	7.7	8.3	---	---	---
10	8.7	7.1	7.8	---	---	---
11	9.0	7.0	7.8	---	---	---
12	8.5	7.2	7.7	---	---	---
13	8.6	6.9	7.4	---	---	---
14	8.6	6.4	7.1	---	---	---
15	8.2	6.5	7.2	7.2	6.5	6.9
16	8.5	6.7	7.5	7.6	6.3	7.0
17	---	---	---	7.4	6.0	6.7
18	---	---	---	7.7	6.3	6.8
19	---	---	---	8.1	6.5	7.3
20	---	---	---	8.7	7.0	7.7
21	---	---	---	8.8	7.2	7.9
22	---	---	---	8.5	6.5	7.6
23	---	---	---	7.8	6.8	7.3
24	---	---	---	8.4	6.1	7.9
25	---	---	---	8.8	7.8	8.2
26	---	---	---	9.2	8.0	8.6
27	---	---	---	9.2	8.1	8.6
28	---	---	---	9.7	8.0	8.9
29	---	---	---	8.8	7.8	8.2
30	---	---	---	---	---	---
31	---	---	---	9.4	7.5	8.4
MONTH	---	---	---	---	---	---

01123990 QUINEBAUG RIVER NEAR DUDLEY, MASS.--Continued

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974.--Continued

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	8.6	7.3	7.8	7.0	4.3	5.5	8.2	1.4	4.3	---	---	---
2	9.3	7.7	8.4	6.8	3.0	5.1	8.1	0.5	3.6	---	---	---
3	9.5	7.3	8.4	5.8	2.9	4.1	6.3	0.4	3.4	---	---	---
4	9.0	6.7	7.8	7.7	3.8	5.5	6.8	1.3	3.3	---	---	---
5	8.7	5.9	7.3	8.2	5.9	6.9	6.3	1.5	3.6	---	---	---
6	8.1	5.7	6.8	8.3	7.0	7.5	7.1	1.3	3.6	---	---	---
7	8.2	5.4	6.7	8.4	6.9	7.6	---	---	---	---	---	---
8	8.1	5.2	6.5	8.2	6.4	7.2	---	---	---	---	---	---
9	8.3	4.7	6.6	7.9	5.8	6.7	4.8	1.0	3.2	---	---	---
10	---	---	---	7.5	5.2	6.3	4.5	0.9	2.5	---	---	---
11	---	---	---	7.7	5.1	6.3	---	---	---	---	---	---
12	---	---	---	8.5	5.1	6.7	---	---	---	---	---	---
13	7.3	3.1	5.7	9.0	4.5	6.7	---	---	---	---	---	---
14	7.7	3.1	5.1	9.1	4.4	6.6	---	---	---	---	---	---
15	7.9	3.1	5.3	8.4	4.6	6.3	---	---	---	---	---	---
16	5.4	3.4	4.2	8.1	4.5	6.2	---	---	---	---	---	---
17	---	---	---	7.9	4.2	5.9	---	---	---	8.1	4.9	6.7
18	---	---	---	6.6	3.1	5.1	---	---	---	8.4	5.1	6.5
19	---	---	---	6.7	2.8	4.3	---	---	---	8.0	4.6	6.1
20	7.2	5.4	6.5	7.2	3.0	4.9	---	---	---	8.3	4.1	6.2
21	7.1	5.5	6.0	7.9	4.0	5.6	---	---	---	7.0	5.6	6.3
22	7.4	5.2	6.3	8.1	3.7	5.7	---	---	---	8.5	7.1	7.8
23	7.2	5.6	6.4	7.8	3.6	5.3	---	---	---	8.9	8.0	8.4
24	8.8	6.4	7.5	7.8	3.6	5.7	---	---	---	9.3	8.2	8.7
25	7.6	6.2	6.8	8.0	3.5	5.5	---	---	---	9.3	8.0	8.6
26	7.0	6.3	6.6	8.3	3.1	5.7	---	---	---	8.8	7.8	8.2
27	7.4	6.2	6.7	8.0	2.9	5.0	---	---	---	9.0	7.7	8.1
28	7.7	5.2	6.6	7.7	3.4	5.2	---	---	---	8.9	7.3	7.9
29	6.3	4.8	5.5	7.5	3.4	5.3	---	---	---	---	---	---
30	7.1	4.6	5.7	7.6	2.7	4.8	---	---	---	---	---	---
31	---	---	---	7.8	1.8	4.6	---	---	---	---	---	---
MONTH	9.5	3.1	6.6	9.1	1.8	5.8	---	---	---	---	---	---
YEAR	9.7	0.4	6.5									

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN
1	18.5	17.5	18.0	18.0	11.5	13.5
2	18.5	18.0	18.0	16.5	15.0	15.5
3	19.0	18.5	19.0	---	---	---
4	20.0	19.0	19.5	---	---	---
5	19.5	19.0	19.5	---	---	---
6	19.0	18.0	18.5	---	---	---
7	18.0	17.5	18.0	---	---	---
8	17.5	17.0	17.5	---	---	---
9	17.5	16.5	17.0	---	---	---
10	17.5	16.0	16.5	---	---	---
11	16.0	15.5	16.0	---	---	---
12	16.0	15.5	16.0	---	---	---
13	16.0	15.5	16.0	---	---	---
14	16.0	16.0	16.0	---	---	---
15	16.5	15.5	16.0	19.5	19.0	19.5
16	16.0	15.5	16.0	19.5	17.5	18.5
17	16.0	15.5	15.5	20.5	17.5	19.0
18	---	---	---	20.0	17.5	19.0
19	---	---	---	19.0	17.5	18.5
20	---	---	---	18.0	16.5	17.5
21	---	---	---	17.0	16.0	16.5
22	---	---	---	18.5	16.0	17.5
23	---	---	---	18.0	16.0	17.0
24	---	---	---	16.5	14.5	16.0
25	---	---	---	16.5	15.5	16.0
26	---	---	---	16.0	15.5	15.5
27	---	---	---	15.5	13.0	14.5
28	---	---	---	15.5	13.5	14.5
29	---	---	---	15.0	14.0	14.5
30	---	---	---	---	---	---
31	---	---	---	18.0	17.5	18.0
MONTH	---	---	---	---	---	---

01123990 QUINEBAUG RIVER NEAR DUDLEY, MASS.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974.--Continued

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	18.5	18.0	18.0	24.5	21.5	23.0	28.0	24.5	26.5	---	---	---
2	18.5	18.0	18.0	25.5	22.0	23.5	28.5	24.5	26.5	---	---	---
3	20.0	17.5	19.0	25.0	23.5	24.0	28.0	25.0	27.0	---	---	---
4	21.5	19.5	20.5	27.0	24.0	25.0	28.5	26.0	27.0	---	---	---
5	22.5	20.5	21.5	26.5	24.5	25.0	28.5	25.0	27.0	---	---	---
6	23.5	22.0	22.5	25.5	24.0	24.5	28.5	25.0	26.5	---	---	---
7	23.5	21.0	22.0	25.5	24.0	25.0	---	---	---	---	---	---
8	24.0	21.0	22.5	26.5	25.0	26.0	---	---	---	---	---	---
9	25.5	22.0	23.5	27.5	26.0	27.0	24.5	23.0	23.5	---	---	---
10	---	---	---	28.5	26.5	27.5	25.0	21.5	23.0	---	---	---
11	---	---	---	28.0	25.5	27.0	---	---	---	---	---	---
12	---	---	---	27.5	24.5	25.5	---	---	---	---	---	---
13	24.5	22.0	23.5	28.0	24.5	26.0	---	---	---	---	---	---
14	25.0	20.5	22.5	28.5	25.0	26.5	---	---	---	---	---	---
15	24.5	20.5	22.0	27.5	25.0	26.0	---	---	---	---	---	---
16	22.5	21.5	22.0	27.0	25.0	26.0	---	---	---	---	---	---
17	22.5	21.0	21.5	27.5	24.0	25.5	---	---	---	21.5	20.5	21.0
18	23.5	22.0	23.0	26.5	24.0	25.0	---	---	---	21.5	20.0	20.5
19	23.5	22.0	23.0	27.0	24.5	25.5	---	---	---	21.0	20.0	20.5
20	24.0	22.5	23.0	26.0	23.5	24.5	---	---	---	21.5	19.5	20.5
21	23.5	22.5	23.0	27.0	22.5	24.5	---	---	---	20.0	19.0	19.5
22	25.0	22.0	23.5	26.5	22.5	24.5	---	---	---	18.5	17.5	18.0
23	23.0	21.5	22.0	26.0	23.0	24.5	---	---	---	17.5	16.5	17.0
24	23.0	21.0	22.0	25.0	22.5	23.5	---	---	---	16.0	15.0	15.5
25	22.0	20.0	21.5	25.5	22.5	24.0	---	---	---	15.5	14.5	15.0
26	20.5	20.0	20.5	26.5	22.5	24.5	---	---	---	16.0	15.0	15.5
27	20.5	19.5	20.0	26.0	23.5	24.5	---	---	---	16.0	15.0	15.5
28	21.5	19.0	20.0	25.5	24.0	24.5	---	---	---	16.5	15.5	16.0
29	22.0	20.5	21.0	26.0	24.0	25.0	---	---	---	16.5	16.0	16.5
30	24.0	20.5	22.0	26.5	24.0	25.0	---	---	---	16.5	15.5	15.5
31	---	---	---	28.5	24.5	26.0	---	---	---	---	---	---
MONTH	25.5	17.5	21.5	28.5	21.5	25.0	---	---	---	---	---	---
YEAR	28.5	11.5	21.0									

01124750 BROWNS BROOK NEAR WEBSTER, MASS.

LOCATION.--Lat 42°03'24", long 71°49'51", Worcester County, two-parameter monitor at gaging station on left bank 15 ft (5 m) downstream from culvert on State Highway 16 and 1.8 mi (2.9 km) east of Webster.

DRAINAGE AREA.--0.49 mi² (1.27 km²).

PERIOD OF RECORD.--Chemical analyses: November 1971 to current year.
Water temperatures: November 1971 to current year.

EXTREMES.--Current year:
Specific conductance: Maximum, 188 micromhos/cm Jan. 19; minimum, 30 micromhos/cm on several days during August.
Water temperatures: Maximum, 24.0°C Aug. 16; minimum, freezing point on many days during winter period.

Period of record:
Specific conductance: Maximum, 188 micromhos/cm Jan. 19, 1974; minimum, 30 micromhos/cm on several days during August 1974.
Water temperatures: Maximum, 21.5°C Sept. 4, 1973; minimum, freezing point on many days during winter periods.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C) , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	52	50	51	51	48	50	46	44	45	44	43	43
2	52	51	52	50	48	49	45	44	44	44	42	43
3	53	52	53	49	48	49	45	43	44	43	42	42
4	52	52	52	49	48	48	46	44	45	43	42	42
5	52	51	52	49	48	48	46	43	45	43	43	43
6	52	51	52	48	48	48	45	43	44	43	43	43
7	52	51	52	48	47	48	43	42	42	44	44	44
8	52	51	52	47	47	47	43	42	42	44	44	44
9	52	50	51	47	46	47	43	43	43	45	45	45
10	52	51	51	47	46	46	43	41	42	46	45	45
11	52	50	51	47	45	46	43	41	42	50	46	47
12	52	50	51	47	46	46	43	41	42	47	47	47
13	52	51	52	47	46	47	43	41	42	47	47	47
14	53	52	53	48	47	47	43	41	42	47	47	47
15	53	52	52	47	47	47	43	42	43	49	48	49
16	52	51	52	47	46	47	68	42	46	50	49	50
17	52	51	51	47	46	46	66	43	47	49	49	49
18	52	51	51	47	46	47	42	42	42	50	49	50
19	52	50	51	47	46	47	42	42	42	188	50	102
20	52	51	51	47	46	46	44	42	43	86	81	83
21	52	50	51	47	46	47	44	42	43	119	80	92
22	52	50	51	48	47	47	42	42	42	112	104	107
23	53	51	52	48	46	47	42	42	42	104	97	101
24	53	50	52	47	46	47	42	42	42	96	89	93
25	52	51	51	47	46	46	42	42	42	89	81	84
26	51	51	51	47	45	46	43	42	42	80	74	77
27	52	50	51	47	45	46	42	42	42	89	73	77
28	51	50	50	46	44	45	42	42	42	74	66	70
29	54	50	51	46	45	46	42	42	42	66	64	65
30	55	51	54	46	45	46	42	42	42	63	62	63
31	53	51	53	---	---	---	46	42	44	62	61	61
MONTH	55	50	52	51	44	47	68	41	43	188	42	61

01124750 BROWNS BROOK NEAR WEBSTER, MASS.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974.--Continued

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	62	59	61	57	55	56	56	54	55	52	50	51
2	61	60	60	58	57	58	55	53	54	52	51	51
3	59	59	59	58	57	57	57	53	55	52	49	51
4	59	58	58	58	58	58	56	55	55	52	50	51
5	58	57	58	59	58	59	55	54	55	52	51	51
6	58	57	57	60	58	59	54	53	53	52	51	51
7	57	56	56	60	58	59	55	53	54	52	51	52
8	56	56	56	61	59	60	54	54	54	53	51	52
9	56	55	56	61	61	61	54	52	52	52	51	52
10	56	55	56	61	60	61	60	51	54	52	50	51
11	61	55	57	61	60	61	57	53	55	53	51	52
12	56	55	56	61	60	61	56	53	55	52	48	51
13	57	54	56	61	59	60	55	54	55	50	47	49
14	57	56	56	61	60	60	54	54	54	51	48	50
15	57	56	57	61	59	60	54	52	53	52	50	51
16	58	56	57	64	59	60	55	52	53	52	51	51
17	80	57	62	67	61	64	54	52	53	53	51	52
18	61	58	59	65	63	64	54	52	54	53	51	52
19	92	58	62	65	62	64	54	52	53	53	52	52
20	92	65	71	64	61	63	53	52	53	53	51	52
21	70	66	69	88	52	63	54	52	53	53	51	52
22	75	61	66	55	53	54	54	53	53	54	52	53
23	64	60	63	54	52	53	53	52	53	53	51	52
24	63	56	59	55	53	54	53	52	52	52	51	52
25	57	55	56	54	52	54	52	52	52	52	51	52
26	56	54	55	54	53	54	52	51	52	52	52	52
27	57	55	56	55	53	54	53	51	52	52	52	52
28	57	55	56	55	53	54	53	51	52	52	52	52
29	---	---	---	55	54	54	54	51	52	52	52	52
30	---	---	---	56	54	55	52	51	52	52	52	52
31	---	---	---	56	54	55	---	---	---	53	52	53
MONTH	92	54	59	88	52	58	60	51	53	54	47	52

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	53	53	53	52	50	51	60	59	60	63	61	62
2	53	53	53	52	51	51	61	51	58	63	59	62
3	54	52	53	52	49	51	60	52	58	63	51	59
4	55	53	54	53	51	52	61	51	58	60	56	59
5	55	54	55	53	48	51	58	53	56	62	60	61
6	54	54	54	52	49	50	60	57	58	63	61	62
7	54	54	54	53	51	52	61	58	60	59	49	56
8	54	54	54	54	52	53	62	53	60	62	59	61
9	55	54	54	56	53	54	62	54	60	64	62	63
10	56	54	55	56	54	55	61	36	52	64	62	63
11	54	53	54	55	54	54	53	35	44	66	63	64
12	54	53	53	56	53	54	52	35	39	65	65	65
13	58	53	55	57	53	55	33	30	32	66	57	65
14	57	55	56	57	55	56	32	30	32	64	54	62
15	56	54	55	59	55	56	31	31	31	64	62	63
16	55	52	53	56	54	55	30	30	30	65	62	64
17	52	51	51	57	54	55	54	30	32	65	63	64
18	53	51	52	57	55	56	58	56	58	65	55	62
19	52	51	52	57	56	57	60	55	58	64	63	64
20	51	50	51	56	54	55	59	30	50	65	62	64
21	52	50	51	58	54	56	51	30	39	63	52	60
22	51	50	50	64	56	57	30	30	30	62	56	60
23	51	50	50	58	57	58	30	30	30	63	62	62
24	51	49	50	58	55	57	30	30	30	63	61	62
25	51	50	50	58	57	57	30	30	30	63	61	62
26	50	49	50	59	57	58	31	31	31	63	62	63
27	50	49	49	58	57	58	32	31	31	64	62	63
28	51	49	50	58	57	58	62	31	36	64	61	63
29	51	50	50	58	57	58	60	51	58	56	41	52
30	51	50	51	59	57	58	59	55	58	57	55	56
31	---	---	---	70	58	59	61	58	60	---	---	---
MONTH	58	49	52	70	48	55	62	30	46	66	41	62
YEAR	188	30	53									

01124750 BROWNS BROOK NEAR WEBSTER, MASS.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	14.0	11.0	12.5	10.5	9.5	10.0	7.0	5.5	6.5	5.0	3.0	4.5
2	14.0	11.5	13.0	10.5	9.0	10.0	6.5	5.0	6.0	5.0	2.5	3.0
3	15.0	13.5	14.0	10.0	8.5	9.5	7.0	5.0	6.0	3.5	2.5	3.0
4	15.5	13.5	15.0	9.5	7.5	8.5	7.5	5.5	6.5	---	---	---
5	14.5	13.5	14.0	8.5	7.0	8.0	8.0	6.5	7.5	---	---	---
6	14.5	12.5	13.5	7.0	6.5	6.5	8.5	5.5	6.0	---	---	---
7	13.5	11.5	12.5	8.0	6.5	7.0	7.0	5.5	6.5	---	---	---
8	13.5	10.5	12.0	7.5	6.0	7.0	5.5	0.0	5.0	---	---	---
9	14.5	11.0	12.5	7.5	6.0	7.0	6.5	5.0	5.5	---	---	---
10	13.5	11.5	12.0	7.0	5.5	6.0	7.0	5.5	6.0	---	---	---
11	13.0	10.5	11.5	6.5	5.0	5.5	7.0	5.0	5.0	---	---	---
12	13.0	9.5	11.0	7.0	5.5	6.0	6.0	4.5	4.5	---	---	---
13	13.5	10.5	12.0	7.0	6.0	6.5	5.0	4.0	4.5	---	---	---
14	13.5	11.5	12.5	9.0	7.0	7.5	6.5	5.0	6.0	---	---	---
15	13.5	10.5	12.0	8.5	6.5	8.0	6.5	4.5	5.0	---	---	---
16	12.5	10.0	11.0	8.5	6.5	7.5	5.0	3.5	4.0	---	---	---
17	11.0	9.0	10.0	7.5	5.5	6.5	4.0	2.5	3.5	---	---	---
18	10.5	9.0	10.0	7.5	5.0	6.5	3.0	1.0	1.5	---	---	---
19	11.0	9.0	9.5	8.0	5.5	7.0	1.5	0.5	1.0	---	---	---
20	10.5	9.0	9.5	7.0	5.0	5.5	3.0	1.0	2.0	---	---	---
21	11.0	8.0	9.5	7.0	5.0	6.0	5.5	3.0	4.5	---	---	---
22	11.5	8.0	9.5	8.5	6.0	7.5	3.0	2.0	2.5	2.5	1.5	1.0
23	12.0	9.0	10.5	8.5	6.5	7.5	3.0	2.0	2.5	3.0	1.5	2.5
24	13.0	9.5	11.0	8.5	6.5	7.5	2.5	0.5	2.0	3.0	1.0	2.0
25	12.5	10.0	11.0	9.0	8.0	8.5	2.5	0.5	2.0	3.5	1.0	2.5
26	11.5	10.0	10.5	8.0	7.0	7.5	5.0	3.0	3.5	4.5	2.5	3.5
27	12.0	8.5	10.0	8.0	7.0	7.5	6.0	5.0	5.5	6.0	3.5	4.5
28	10.0	7.5	9.0	9.0	7.5	8.5	5.5	4.5	5.0	5.5	4.0	4.5
29	10.0	8.5	9.0	8.5	7.0	7.5	5.5	4.5	5.0	6.0	4.0	5.0
30	11.5	10.5	11.0	7.5	6.5	7.0	5.0	4.0	4.5	6.0	3.5	4.5
31	11.5	10.0	10.5	---	---	---	4.5	3.5	4.0	5.5	4.0	4.5
MONTH	15.5	7.5	11.5	10.5	5.0	7.5	8.5	0.0	4.5	---	---	---

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	5.0	3.0	4.0	3.5	2.0	2.5	6.5	4.0	5.0	13.0	9.0	11.0
2	4.5	1.0	2.5	3.0	2.0	2.5	5.0	4.0	4.5	12.0	8.0	10.0
3	3.0	2.0	2.5	3.5	2.5	3.0	8.0	4.5	6.5	9.5	8.0	9.0
4	3.5	1.5	2.5	5.0	3.0	4.0	9.0	7.0	8.0	11.0	7.5	9.0
5	2.0	0.0	1.0	5.0	3.5	4.5	9.0	8.0	8.0	10.5	7.5	9.0
6	2.5	1.0	2.0	5.5	3.0	4.0	7.5	7.0	7.5	9.5	8.0	8.5
7	2.5	0.0	1.5	6.5	4.0	5.0	8.5	6.0	7.5	10.0	8.0	9.0
8	2.0	0.0	1.0	6.5	4.5	5.0	7.0	6.0	6.5	11.0	7.5	9.0
9	1.5	0.0	0.5	4.5	3.5	4.0	6.5	3.5	5.0	10.5	8.0	9.0
10	3.0	0.0	1.0	5.0	3.0	4.0	4.5	3.0	3.5	10.0	9.0	9.0
11	2.5	0.0	1.5	4.5	2.5	3.0	6.0	3.0	4.5	12.0	9.5	10.5
12	3.0	1.0	2.0	4.0	2.0	3.0	7.0	4.0	5.5	11.0	10.0	10.5
13	4.0	1.5	2.5	3.5	0.5	2.0	6.0	5.5	6.0	11.0	10.0	10.5
14	4.0	1.5	3.0	4.0	0.5	2.5	7.5	5.5	6.5	12.5	9.5	11.0
15	4.5	1.0	3.0	5.0	1.0	3.0	9.5	7.5	8.5	14.0	10.5	12.0
16	3.5	1.0	2.0	5.5	3.5	4.5	9.5	8.0	8.5	14.0	11.5	12.5
17	5.5	1.5	3.5	5.5	3.0	4.5	9.5	7.0	8.0	15.0	12.5	13.5
18	4.0	1.5	3.0	4.5	3.0	3.5	10.0	7.5	8.5	14.0	12.0	12.5
19	4.0	1.5	2.5	5.0	2.5	3.5	8.5	7.0	8.0	13.0	11.0	12.0
20	3.5	1.5	2.5	6.0	3.0	4.0	8.5	6.0	7.0	12.5	11.0	11.5
21	3.5	1.5	2.5	3.5	2.5	3.5	10.0	6.0	8.0	12.0	10.5	11.5
22	4.0	1.0	3.0	4.0	2.0	3.0	10.0	7.5	8.5	13.5	11.5	12.5
23	4.0	2.5	3.5	4.0	2.5	3.5	10.0	8.5	9.0	12.0	11.0	11.5
24	3.5	1.0	2.5	5.5	3.5	4.5	8.0	6.5	7.5	11.5	10.5	11.0
25	3.0	1.5	2.5	4.0	2.5	3.0	9.0	6.0	7.0	12.0	10.5	11.0
26	3.0	1.0	2.0	4.0	2.0	2.5	9.0	6.0	7.5	11.0	10.5	11.0
27	2.5	0.0	1.0	4.0	2.0	3.0	10.0	6.5	8.0	11.0	10.0	10.5
28	2.5	0.5	1.5	5.0	2.0	3.5	11.5	7.5	9.0	12.5	9.5	11.5
29	---	---	---	3.5	2.0	3.0	12.5	8.5	10.5	11.5	11.0	11.5
30	---	---	---	4.0	2.5	3.5	11.0	10.0	10.5	12.0	11.0	11.5
31	---	---	---	4.5	3.5	4.0	---	---	---	12.0	10.5	11.0
MONTH	5.5	0.0	2.0	6.5	0.5	3.5	12.5	3.0	7.5	15.0	7.5	10.5

01124750 BROWNS BROOK NEAR WEBSTER, MASS.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974.--Continued

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	11.5	11.0	11.0	16.0	14.0	15.0	20.0	15.5	17.5	21.5	18.0	19.5
2	11.5	11.0	11.0	17.0	14.0	15.5	20.5	16.0	18.5	17.5	16.0	16.5
3	13.0	10.5	11.5	17.0	15.0	15.5	19.0	17.5	18.5	16.5	14.0	15.0
4	13.0	11.0	12.0	18.0	15.0	16.5	21.5	18.0	19.0	15.5	14.5	15.0
5	13.5	11.5	12.5	18.5	15.5	16.5	19.0	16.5	18.0	17.0	13.5	15.0
6	13.0	11.5	12.0	16.5	15.0	15.5	19.0	15.5	17.0	15.5	13.5	14.0
7	14.0	11.0	12.0	17.5	14.5	16.0	17.5	15.0	16.5	15.0	13.5	14.5
8	14.0	11.0	13.0	18.0	15.5	16.5	20.0	15.0	17.5	17.0	13.5	15.0
9	15.5	12.5	14.0	19.5	16.0	17.0	18.0	16.0	17.0	18.0	15.0	16.0
10	16.0	13.5	15.0	18.5	16.0	17.0	18.0	14.0	16.0	19.5	14.5	16.5
11	16.5	14.5	15.0	17.0	15.0	16.0	18.5	13.0	15.5	18.0	15.0	16.0
12	15.0	14.0	14.5	17.5	14.5	15.5	19.0	13.5	16.0	---	---	---
13	15.5	13.5	14.5	18.0	14.0	16.0	19.5	14.0	16.0	22.0	18.0	19.5
14	16.0	13.5	14.5	19.0	15.0	17.0	22.0	14.0	17.5	18.0	15.0	16.5
15	15.5	12.5	14.0	18.5	16.0	17.0	23.0	15.5	19.5	17.0	14.0	15.0
16	15.5	14.0	14.5	17.5	15.5	16.0	24.0	13.5	19.0	16.5	13.0	14.0
17	15.5	14.5	15.0	18.0	14.5	16.0	23.5	19.0	21.0	17.0	11.5	14.0
18	16.0	14.5	15.0	18.5	15.0	16.5	21.5	19.0	20.0	16.5	14.0	15.0
19	16.0	14.0	15.0	18.5	16.0	17.0	21.5	17.5	19.5	16.5	14.5	15.5
20	16.0	14.5	15.0	17.5	15.0	16.0	22.5	18.0	20.5	19.0	15.0	16.5
21	15.5	14.0	14.5	17.5	13.5	15.5	22.5	19.0	20.5	16.0	15.5	16.0
22	16.0	14.0	15.0	17.5	14.0	15.5	21.5	16.5	19.5	15.5	13.0	14.0
23	15.0	13.0	14.5	17.5	15.0	16.0	21.5	19.5	20.5	14.0	11.5	13.0
24	15.5	13.5	14.0	16.0	13.5	15.0	23.0	19.5	21.0	13.0	10.0	11.0
25	14.0	13.5	13.5	16.5	14.5	15.5	22.0	16.0	18.5	13.0	10.0	11.0
26	14.0	13.0	13.5	17.5	14.5	16.0	21.5	15.5	18.5	13.5	11.0	12.0
27	14.0	13.0	13.5	16.5	15.0	15.5	23.5	16.5	20.0	15.5	10.5	12.5
28	15.0	12.0	13.5	17.0	15.5	16.0	23.5	19.5	21.0	16.0	13.0	14.5
29	15.5	13.5	14.0	17.5	16.0	16.5	19.0	16.5	17.5	15.0	13.5	14.0
30	16.0	13.0	14.5	18.5	16.0	17.0	17.0	16.0	16.5	14.0	12.5	13.5
31	---	---	---	20.0	16.5	18.0	19.5	15.0	17.5	---	---	---
MONTH	16.5	10.5	14.0	20.0	13.5	16.0	24.0	13.0	18.5	22.0	10.0	15.0
YEAR	24.0	0.0	10.0									

01160000 SOUTH BRANCH ASHUELOT RIVER AT WEBB, NEAR MARLBOROUGH, N.H.

LOCATION.--Lat 42°52'20", long 72°12'51", Cheshire County, two-parameter monitor at gaging station on right bank 15 ft (4.6 m) downstream from bridge, at Webb, 2.5 mi (4.0 km) south of Marlborough.

DRAINAGE AREA.--36.0 mi² (93.2 km²).

PERIOD OF RECORD.--Chemical analyses: August 1972 to current year.
Water temperatures: October 1954 to current year.

EXTREMES.--Current year:
Specific conductance: Maximum, 163 micromhos Aug. 17; minimum, 40 micromhos May 14.
Water temperatures: Maximum, 28.0°C July 15; minimum, freezing point on many days during winter period.

Period of record:
Specific conductance: Maximum, 170 micromhos Sept. 9, 1972; minimum, 36 micromhos Dec. 8, 12, 1972.
Water temperatures: Maximum, 33.5°C July 14, 1965; minimum, freezing point on many days during wnter periods.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	52	50	51	90	71	80	71	70	71	65	47	55
2	60	50	53	74	71	72	70	70	70	64	57	58
3	62	59	61	75	72	73	71	70	70	57	56	56
4	68	61	66	74	72	73	72	70	71	59	56	57
5	71	66	68	75	73	74	80	70	74	57	56	57
6	78	73	77	76	75	75	72	58	67	58	57	57
7	89	75	84	80	75	78	58	55	56	58	57	57
8	88	81	84	83	78	80	55	55	55	60	58	59
9	83	80	81	86	82	83	94	55	60	64	60	61
10	89	77	81	90	83	86	69	55	63	61	59	60
11	93	90	91	92	89	91	58	54	56	60	57	58
12	94	90	92	93	91	92	57	55	56	59	57	59
13	94	90	91	93	92	92	59	55	57	60	59	59
14	95	93	94	93	92	92	71	58	64	60	59	60
15	104	96	101	97	92	94	67	54	57	65	59	61
16	105	104	105	98	93	96	55	54	55	63	60	61
17	105	103	104	93	89	90	55	55	55	66	59	63
18	109	103	106	91	89	90	57	55	56	64	60	62
19	108	102	106	92	90	91	58	57	58	75	60	64
20	103	101	102	90	89	90	73	58	61	77	63	71
21	103	101	102	92	85	89	99	43	64	120	64	81
22	105	101	103	92	91	92	43	43	43	143	79	104
23	108	89	100	93	91	92	44	44	44	99	64	73
24	108	96	102	92	91	92	47	44	45	77	62	68
25	111	101	105	91	84	87	55	46	48	64	60	61
26	118	104	111	84	79	82	61	55	57	61	59	60
27	118	113	116	89	82	84	56	45	46	64	59	62
28	112	110	111	90	87	89	45	45	45	59	50	54
29	114	108	110	91	74	86	45	45	45	53	48	49
30	113	98	104	74	72	73	46	45	45	49	47	48
31	98	89	93	---	---	---	47	45	46	50	48	49
MONTH	118	50	92	98	71	85	99	43	57	143	47	61

01160000 SOUTH BRANCH ASHUELOT RIVER AT WEBB, NEAR MARLBOROUGH, N.H.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974.--Continued

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	52	49	50	62	60	61	61	56	58	56	51	54
2	52	50	51	61	59	60	58	54	55	52	50	51
3	55	52	54	59	58	59	56	52	54	51	50	51
4	60	54	56	60	58	59	54	45	48	52	50	51
5	68	59	61	59	55	57	47	43	44	52	50	51
6	59	58	59	57	52	54	43	43	43	52	51	51
7	62	57	59	56	52	54	45	43	43	53	51	52
8	63	59	60	58	54	56	55	44	46	53	51	53
9	60	59	60	60	55	58	55	47	51	54	53	54
10	61	59	60	63	58	60	54	50	52	54	51	53
11	60	60	60	64	61	62	55	52	54	53	49	50
12	62	60	61	66	62	64	57	53	55	51	49	50
13	63	61	62	68	65	67	55	49	54	49	41	44
14	65	62	63	70	67	68	54	48	51	45	40	42
15	73	63	66	73	69	71	52	43	45	49	43	47
16	67	62	64	103	70	78	45	43	43	50	48	49
17	63	62	63	78	58	63	47	43	44	51	48	49
18	64	63	63	60	60	60	49	47	48	50	49	50
19	108	64	69	67	42	55	51	47	49	51	49	50
20	122	78	102	52	45	47	54	50	52	52	50	51
21	131	83	104	56	45	51	55	52	54	53	51	52
22	106	70	85	63	52	55	55	53	55	53	51	52
23	69	51	54	55	52	53	55	55	55	55	53	53
24	53	51	52	55	54	54	55	54	55	53	49	51
25	57	53	54	54	50	53	54	52	54	51	48	49
26	59	54	56	54	52	53	54	52	53	49	49	49
27	63	54	57	54	51	53	54	52	53	49	49	49
28	62	61	62	55	52	54	55	53	53	49	48	49
29	---	---	---	56	53	54	55	53	54	50	49	49
30	---	---	---	63	55	56	58	54	55	51	49	50
31	---	---	---	67	54	58	---	---	---	51	50	50
MONTH	131	49	63	103	42	58	61	43	51	56	40	50

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	52	49	50	69	67	68	101	98	99	97	87	92
2	51	49	49	71	68	70	110	100	104	102	88	94
3	51	49	50	71	67	69	112	110	111	99	71	88
4	52	50	51	70	67	69	111	106	109	78	71	74
5	54	52	53	70	69	70	107	106	106	80	74	77
6	56	54	55	71	68	69	110	107	108	83	78	81
7	56	54	55	73	68	70	110	98	102	84	80	82
8	58	54	56	74	71	73	103	98	101	86	84	85
9	63	57	60	78	73	75	111	103	106	85	82	83
10	64	61	62	83	78	80	118	111	113	86	82	84
11	72	63	66	85	80	83	120	116	117	83	81	82
12	66	56	60	90	84	86	121	118	119	83	81	82
13	58	54	56	95	87	91	125	120	123	83	76	82
14	68	58	64	97	90	94	125	122	123	76	67	70
15	72	67	70	100	96	98	129	124	126	69	68	69
16	74	70	72	98	96	97	147	128	135	70	67	69
17	70	63	66	97	91	94	163	147	159	75	70	72
18	65	61	62	105	92	97	152	144	147	77	74	75
19	70	60	65	105	100	102	149	143	147	80	77	78
20	73	63	67	111	100	104	149	144	147	83	76	81
21	74	61	69	123	113	118	148	141	144	81	78	79
22	68	63	66	120	109	112	141	134	138	78	73	75
23	68	61	64	110	104	108	137	129	133	80	75	78
24	66	63	64	110	103	105	133	127	130	77	73	76
25	67	61	65	108	103	105	133	124	128	78	74	76
26	61	58	60	108	104	105	126	115	121	77	74	75
27	62	58	60	104	100	102	114	96	102	77	73	75
28	65	60	62	101	99	100	95	90	92	80	76	78
29	66	63	65	102	99	100	91	88	90	75	65	70
30	69	66	67	102	97	99	93	83	89	66	61	63
31	---	---	---	100	96	98	99	90	93	---	---	---
MONTH	74	49	61	123	67	91	163	83	118	102	61	78
YEAR	163	40	72									

01160000 SOUTH BRANCH ASHUELOT RIVER AT WEBB, NEAR MARLBOROUGH, N.H.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	8.0	7.0	7.5	3.5	1.0	2.5	0.0	0.0	0.0
2	12.5	12.0	12.0	7.5	6.5	7.0	1.0	0.0	0.5	0.0	0.0	0.0
3	15.0	12.0	13.0	7.0	6.0	6.5	1.5	0.0	0.5	0.0	0.0	0.0
4	16.0	12.0	13.5	6.0	4.0	5.0	3.0	0.0	1.5	0.0	0.0	0.0
5	14.5	12.0	13.5	4.5	3.0	3.5	5.5	2.0	3.5	0.0	0.0	0.0
6	13.0	9.5	11.0	3.0	1.5	2.5	6.0	5.0	5.5	0.0	0.0	0.0
7	11.5	8.5	10.0	3.5	1.5	2.5	5.0	3.0	4.0	0.0	0.0	0.0
8	11.0	7.5	9.0	3.0	1.0	2.5	2.5	2.0	2.0	0.0	0.0	0.0
9	11.0	6.5	8.5	3.5	1.0	2.5	3.0	1.5	2.0	0.0	0.0	0.0
10	9.5	7.0	8.5	1.5	0.0	0.5	3.5	3.0	3.0	0.0	0.0	0.0
11	11.0	7.5	9.0	0.0	0.0	0.0	3.0	2.0	2.5	0.0	0.0	0.0
12	10.5	6.0	8.0	2.0	0.0	1.0	2.0	0.0	1.0	0.0	0.0	0.0
13	11.5	7.0	9.5	4.0	2.0	3.0	0.5	0.0	0.0	0.0	0.0	0.0
14	12.0	9.0	10.5	6.5	3.5	5.0	2.0	0.5	1.5	0.0	0.0	0.0
15	11.0	7.5	9.0	5.5	3.0	4.5	1.5	0.0	1.0	0.0	0.0	0.0
16	9.0	6.5	7.5	5.5	2.5	4.5	0.0	0.0	0.0	0.0	0.0	0.0
17	8.0	5.5	7.0	3.0	1.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
18	7.5	5.5	6.5	3.5	1.5	2.5	0.0	0.0	0.0	0.0	0.0	0.0
19	8.0	5.5	6.5	4.0	1.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0
20	7.0	6.0	6.5	2.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0
21	9.0	5.5	7.0	2.5	0.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0
22	8.0	3.5	5.5	5.0	2.5	4.0	0.0	0.0	0.0	0.0	0.0	0.0
23	8.0	4.0	6.0	4.5	2.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0
24	9.0	5.0	7.0	4.0	1.5	3.0	0.0	0.0	0.0	0.0	0.0	0.0
25	8.0	6.5	7.5	5.5	4.5	5.0	0.0	0.0	0.0	0.0	0.0	0.0
26	9.0	7.5	8.0	4.0	3.0	3.5	0.0	0.0	0.0	0.0	0.0	0.0
27	8.0	5.5	7.0	4.0	3.5	4.0	0.0	0.0	0.0	0.0	0.0	0.0
28	6.0	3.0	4.5	5.0	4.0	4.5	0.5	0.0	0.5	0.0	0.0	0.0
29	6.0	4.0	5.0	5.0	4.0	4.5	1.0	0.0	0.5	0.5	0.0	0.0
30	8.5	6.0	7.5	4.0	3.5	4.0	1.0	0.0	0.5	1.0	0.0	0.5
31	8.5	7.0	7.5	---	---	---	0.0	0.0	0.0	1.0	0.0	0.5
MONTH	16.0	3.0	8.5	8.0	0.0	3.5	6.0	0.0	1.0	1.0	0.0	0.0

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	0.0	0.0	0.0	2.0	0.0	1.0	4.0	1.5	2.5	14.5	12.0	13.5
2	0.0	0.0	0.0	1.0	0.0	0.5	3.0	2.0	2.5	12.0	9.5	11.0
3	0.0	0.0	0.0	0.5	0.0	0.5	5.5	1.0	3.5	10.5	9.0	9.5
4	0.0	0.0	0.0	1.5	0.0	1.0	7.0	4.5	5.5	11.5	8.5	10.0
5	0.0	0.0	0.0	2.0	1.0	1.5	6.5	5.0	6.0	11.5	7.5	10.0
6	0.0	0.0	0.0	2.5	0.0	1.5	5.0	3.5	4.5	10.0	9.0	9.5
7	0.0	0.0	0.0	3.5	0.5	2.0	5.5	2.0	4.0	10.0	8.5	9.5
8	0.0	0.0	0.0	2.5	1.0	1.5	6.0	4.5	5.0	11.5	8.0	9.5
9	0.0	0.0	0.0	1.0	0.0	0.5	4.5	1.0	2.5	12.0	10.0	11.0
10	0.0	0.0	0.0	2.0	0.0	0.5	2.0	0.5	1.0	11.0	9.5	10.0
11	0.0	0.0	0.0	1.5	0.0	0.0	3.5	0.0	2.5	12.0	9.0	10.5
12	0.0	0.0	0.0	2.0	0.0	0.0	5.0	2.5	3.5	11.5	10.0	10.5
13	0.0	0.0	0.0	0.0	0.0	0.0	4.5	4.0	4.0	10.0	9.5	9.5
14	0.0	0.0	0.0	2.5	0.0	0.0	8.0	3.5	5.5	13.0	9.0	11.0
15	0.0	0.0	0.0	3.5	0.0	1.0	7.5	6.0	7.0	17.0	12.0	14.5
16	0.0	0.0	0.0	1.0	0.5	1.0	8.5	5.5	7.0	18.0	14.5	16.5
17	0.0	0.0	0.0	0.5	0.0	0.0	9.0	5.5	7.5	18.5	15.5	17.0
18	0.0	0.0	0.0	0.5	0.0	0.0	10.0	7.0	8.5	18.5	15.0	17.0
19	0.0	0.0	0.0	2.0	1.5	0.5	10.0	8.0	9.0	17.5	14.5	16.0
20	0.0	0.0	0.0	3.0	0.5	1.5	9.5	6.0	8.0	16.5	12.5	14.5
21	0.0	0.0	0.0	2.0	0.0	1.0	10.5	7.0	9.0	15.0	12.5	13.5
22	0.0	0.0	0.0	1.5	0.0	0.5	13.0	9.5	11.5	17.5	13.0	15.5
23	0.0	0.0	0.0	2.5	0.0	1.0	12.5	11.0	12.0	15.5	13.5	14.5
24	0.0	0.0	0.0	2.0	1.0	1.5	11.0	9.0	10.0	13.0	12.0	12.5
25	0.5	0.0	0.0	1.5	0.0	0.5	10.0	7.5	9.0	12.5	11.0	12.0
26	1.0	0.0	0.0	2.5	0.0	1.0	10.5	7.5	9.0	12.0	11.0	11.5
27	1.0	0.0	0.0	2.5	0.0	1.5	11.0	7.0	9.5	11.0	10.5	10.5
28	1.5	0.0	0.5	3.0	0.5	1.5	12.5	9.0	11.0	12.0	9.5	11.0
29	---	---	---	2.5	0.0	1.0	14.5	11.0	13.0	11.0	10.5	11.0
30	---	---	---	1.5	0.5	1.0	14.5	13.5	14.0	13.0	10.5	12.0
31	---	---	---	2.0	1.0	1.5	---	---	---	14.5	12.5	13.5
MONTH	1.5	0.0	0.0	3.5	0.0	1.0	14.5	0.0	7.0	18.5	7.5	12.0

01160000 SOUTH BRANCH ASHUELOT RIVER AT WEBB, NEAR MARLBOROUGH, N.H.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974.--Continued

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	15.5	13.5	14.5	23.5	18.5	21.0	24.0	18.0	21.0	23.0	18.5	20.0
2	15.0	13.0	14.0	22.5	17.5	20.0	25.0	18.0	21.5	19.0	16.5	17.5
3	16.5	12.5	14.5	22.5	19.5	21.0	25.5	21.5	23.0	17.0	15.0	16.5
4	18.5	13.5	16.0	25.5	20.0	22.5	26.0	22.0	23.5	15.5	14.0	15.0
5	20.5	15.5	18.0	23.0	20.5	22.0	24.5	20.5	22.5	16.0	12.5	14.5
6	20.5	17.0	18.5	24.5	19.5	21.5	24.5	18.0	21.0	15.5	13.5	14.5
7	20.0	15.5	17.5	25.5	19.5	22.0	22.5	18.0	20.5	16.0	14.0	15.0
8	21.0	15.0	18.0	26.5	20.5	23.5	24.0	17.0	20.5	18.0	13.5	16.0
9	23.0	16.5	19.5	27.0	21.5	24.0	21.5	18.5	20.0	19.5	15.5	17.0
10	24.5	18.5	21.5	26.5	22.0	24.0	23.5	16.0	19.0	20.0	15.5	17.5
11	23.0	19.5	21.0	23.5	19.5	21.0	24.0	14.5	19.0	21.0	16.5	18.5
12	20.5	17.5	19.0	23.5	17.0	20.0	24.5	15.5	19.5	22.5	18.0	20.0
13	21.0	14.5	17.5	25.5	17.0	21.0	25.5	16.5	20.5	23.5	19.5	21.5
14	20.0	14.5	17.5	27.0	20.0	23.0	25.5	18.0	21.5	20.5	18.0	19.5
15	21.5	14.5	18.0	28.0	21.5	24.0	24.5	16.5	20.0	18.5	16.0	17.0
16	18.0	17.0	17.5	25.5	21.0	22.5	24.5	15.0	19.0	18.0	14.5	16.0
17	20.5	17.0	19.0	25.0	17.5	21.0	19.5	16.5	18.0	17.5	12.5	15.0
18	22.0	18.5	20.0	25.5	19.0	21.5	23.5	18.0	20.0	16.5	14.0	15.0
19	21.5	17.0	19.5	24.0	20.0	22.0	24.5	16.5	20.0	16.5	13.5	15.0
20	23.0	18.5	20.0	22.0	18.0	20.0	25.5	17.0	20.5	17.5	15.0	16.0
21	19.5	17.5	18.5	22.5	15.5	19.0	25.5	17.5	21.0	16.0	15.0	15.5
22	21.5	18.0	19.5	24.0	16.0	20.0	25.0	17.5	21.0	15.5	13.5	14.0
23	20.0	18.0	18.5	23.0	18.5	20.5	21.0	18.5	19.5	13.5	10.0	12.0
24	21.0	16.0	18.5	20.5	17.5	19.0	25.0	19.5	21.5	11.5	8.5	10.0
25	18.0	15.5	17.5	23.5	17.0	20.0	24.0	17.0	20.0	11.0	8.0	9.5
26	16.5	15.5	16.0	21.5	17.0	19.5	21.5	16.5	19.0	12.0	9.5	10.5
27	16.5	15.0	15.5	20.5	18.5	19.5	22.0	18.5	20.0	13.5	9.0	11.0
28	20.5	14.5	17.0	22.0	19.0	20.0	21.5	19.5	20.5	13.5	11.0	12.5
29	19.5	16.5	18.0	24.0	19.5	21.5	19.5	17.5	18.5	15.0	13.0	14.0
30	22.5	17.0	19.5	23.0	19.5	21.0	17.5	17.0	17.5	14.0	11.0	12.5
31	---	---	---	24.0	19.0	21.5	22.0	16.0	18.5	---	---	---
MONTH	24.5	12.5	18.0	28.0	15.5	21.5	26.0	14.5	20.5	23.5	8.0	15.5
YEAR	28.0	0.0	9.0									

01167800 BEAVER BROOK AT WILMINGTON, VT.

LOCATION.--Lat 42°51'38", long 72°51'04", Windham County, two-parameter monitor at gaging station on right bank 20 ft (6 m) downstream from bridge on State Highway 9, 1.0 mi (1.6 km) southeast of Wilmington, and 1.7 mi (2.7 km) upstream from mouth.

DRAINAGE AREA.--6.38 mi² (16.52 km²).

PERIOD OF RECORD.--Chemical analyses: August 1972 to current year.
Water temperatures: August 1972 to current year.

EXTREMES.--Current year:
Specific conductance: Maximum, 191 micromhos Feb. 22; minimum, 27 micromhos Dec. 27.
Water temperatures: Maximum, 25.5°C June 10; minimum, freezing point on many days during winter period.

Period of record:
Specific conductance: Maximum, 191 micromhos Feb. 22, 1974; minimum, 27 micromhos Dec. 27, 1973.
Water temperatures: Maximum, 25.5°C Aug. 10, 1973, June 10, 1974; minimum, freezing point on many days during winter periods.

REMARKS.--Records of suspended-sediment loads for this station in table of instantaneous suspended sediment.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	99	91	95	59	54	57	50	48	49	55	30	40
2	102	94	97	58	55	56	52	48	50	39	35	37
3	98	80	91	57	56	56	53	50	51	41	38	39
4	84	80	83	58	56	57	54	51	52	41	37	38
5	86	74	82	59	56	58	52	48	51	43	39	40
6	82	75	79	60	57	59	---	---	48	41	40	40
7	87	81	84	62	59	61	---	---	54	42	40	41
8	91	86	88	62	59	61	---	---	58	45	42	43
9	94	88	91	64	60	62	---	---	48	45	43	44
10	97	93	95	64	60	62	37	37	37	45	43	44
11	99	96	97	66	62	64	38	37	38	44	43	44
12	100	95	97	65	63	64	40	37	38	45	43	44
13	99	96	97	64	63	62	42	37	40	47	45	45
14	95	87	89	65	62	61	55	37	42	48	45	46
15	94	88	91	64	63	60	40	37	38	48	47	48
16	95	92	93	73	55	61	39	36	37	54	49	50
17	92	88	90	58	53	54	37	36	37	52	50	51
18	91	88	90	61	53	55	39	35	37	52	50	51
19	91	85	88	62	51	55	41	38	39	61	50	53
20	85	84	84	63	48	51	39	38	38	56	53	54
21	89	83	86	65	60	62	63	31	40	134	54	65
22	87	83	85	63	60	61	31	30	30	103	63	78
23	88	84	86	62	59	60	29	29	29	84	62	72
24	89	86	87	63	59	61	34	29	30	68	57	63
25	91	87	89	58	53	54	37	29	31	59	55	56
26	91	88	89	57	53	55	53	28	34	58	54	56
27	90	88	89	58	51	55	27	27	27	59	50	55
28	91	89	90	53	48	51	28	28	28	53	45	47
29	89	86	89	49	48	49	28	28	28	54	47	49
30	83	54	60	52	48	49	29	29	29	49	44	46
31	58	56	57	---	---	---	31	29	30	49	44	46
MONTH	102	54	87	73	48	58	63	27	39	134	30	49

01167800 BEAVER BROOK AT WILMINGTON, VT.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974.--Continued

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	50	44	47	54	52	53	92	66	73	49	46	48
2	52	48	48	54	52	54	87	65	74	50	46	48
3	49	48	49	66	53	56	66	48	59	50	48	49
4	52	49	50	63	54	59	51	39	45	51	47	49
5	52	50	51	55	41	45	39	39	39	51	48	49
6	56	52	54	43	41	42	44	39	42	51	46	50
7	54	50	51	44	40	43	46	42	44	48	45	46
8	51	50	51	42	40	41	46	44	45	48	46	47
9	53	50	51	44	42	43	50	45	48	49	47	48
10	53	52	53	49	44	46	52	49	50	48	45	46
11	53	52	52	50	47	49	60	50	53	47	44	45
12	54	52	53	52	47	50	54	50	53	48	39	46
13	73	52	57	54	50	52	51	50	51	41	38	40
14	60	54	56	55	50	52	50	39	46	46	41	44
15	57	52	54	55	50	52	40	39	39	49	46	47
16	58	54	56	88	48	55	44	40	42	50	46	48
17	60	54	56	72	46	50	44	42	43	50	47	49
18	60	54	57	50	44	46	46	43	44	51	47	49
19	59	56	59	51	46	48	47	44	45	52	48	50
20	69	54	61	57	48	52	49	44	46	52	49	51
21	102	61	67	57	49	53	49	45	47	53	51	52
22	191	61	91	57	52	55	48	46	47	56	52	54
23	63	53	56	67	53	59	48	45	47	55	49	52
24	53	51	52	70	60	64	50	47	48	52	47	50
25	54	51	52	62	56	59	49	47	48	50	47	49
26	53	50	52	59	54	57	51	48	49	51	49	50
27	55	51	53	58	55	56	53	49	50	51	50	50
28	56	51	53	60	56	58	56	50	52	53	50	51
29	---	---	---	61	57	59	56	50	53	52	51	52
30	---	---	---	60	57	58	54	49	52	55	51	53
31	---	---	---	86	57	69	---	---	---	55	53	54
MONTH	191	44	55	88	40	53	92	39	49	56	38	49

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	55	50	52	62	54	58	72	61	66	76	66	71
2	55	51	53	68	60	64	79	69	74	73	52	60
3	58	54	56	66	45	53	82	75	79	59	49	55
4	60	56	58	58	47	54	85	80	83	53	49	50
5	63	59	62	58	50	56	85	81	83	61	49	54
6	64	55	59	59	49	54	93	82	87	60	55	58
7	59	56	58	64	56	60	97	87	92	60	53	57
8	63	59	61	71	61	66	101	92	96	65	54	58
9	67	62	65	76	69	73	102	96	99	69	59	64
10	67	65	66	84	75	79	105	98	101	74	65	68
11	71	68	69	87	78	82	107	97	101	76	68	71
12	75	69	73	94	85	90	113	100	105	79	71	75
13	77	72	74	103	89	95	115	104	108	81	60	76
14	80	75	77	103	94	98	117	107	110	57	47	51
15	86	78	80	91	56	63	118	107	111	64	52	58
16	78	68	76	75	61	68	119	108	112	69	59	63
17	64	42	49	84	69	76	114	72	106	74	64	68
18	47	36	42	89	79	83	69	58	63	71	64	69
19	54	44	50	92	81	86	80	63	71	68	64	66
20	56	52	54	81	74	78	86	73	78	70	64	67
21	57	42	52	89	76	81	91	78	83	63	42	55
22	52	42	47	95	81	87	94	83	88	51	43	46
23	56	51	53	96	86	90	95	88	91	51	46	48
24	61	54	57	94	89	91	100	93	95	73	34	56
25	59	53	58	98	90	92	100	92	95	65	57	61
26	51	46	48	93	87	89	99	92	96	67	53	58
27	48	43	45	88	74	82	101	96	99	75	54	61
28	56	47	52	80	69	75	96	84	89	64	37	59
29	56	54	55	76	69	72	84	58	68	55	49	52
30	58	54	55	77	67	73	57	50	53	60	46	50
31	---	---	---	74	63	69	69	57	63	---	---	---
MONTH	86	36	59	103	45	75	119	50	89	81	34	60
YEAR	191	27	60									

01167800 BEAVER BROOK AT WILMINGTON, VT.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	12.0	6.0	9.0	7.5	6.0	7.0	2.5	0.0	1.0	0.5	0.0	0.0
2	11.5	6.5	9.5	6.5	5.0	6.0	0.5	0.0	0.0	0.0	0.0	0.0
3	13.0	11.0	12.0	6.5	4.5	6.0	1.0	0.0	0.0	0.0	0.0	0.0
4	15.0	11.0	12.5	4.0	2.5	3.0	3.0	0.0	1.5	0.0	0.0	0.0
5	13.5	11.0	12.5	3.5	1.5	2.5	4.0	2.5	3.0	0.0	0.0	0.0
6	12.5	9.0	10.5	1.5	1.0	1.5	---	---	---	0.0	0.0	0.0
7	11.5	7.5	9.5	2.5	1.0	1.5	---	---	---	0.0	0.0	0.0
8	11.5	6.5	8.5	2.5	1.0	2.0	---	---	---	0.0	0.0	0.0
9	11.5	5.5	8.0	2.5	0.5	1.5	---	---	---	0.0	0.0	0.0
10	11.5	5.5	8.0	0.5	0.0	0.0	2.5	1.5	2.0	0.0	0.0	0.0
11	11.5	7.0	8.5	0.5	0.0	0.0	2.0	1.0	1.5	0.0	0.0	0.0
12	12.0	5.0	8.0	2.5	0.5	1.5	1.0	0.0	0.5	0.5	0.0	0.0
13	13.0	6.5	9.5	3.5	2.0	2.5	0.5	0.0	0.0	0.5	0.0	0.0
14	11.5	8.0	10.0	6.5	3.5	5.0	1.5	0.0	1.0	0.5	0.0	0.5
15	11.0	7.0	9.0	6.0	3.5	5.0	1.0	0.0	0.5	0.5	0.5	0.5
16	9.0	6.0	7.0	5.5	2.5	4.5	0.5	0.0	0.0	0.5	0.5	0.5
17	7.5	5.5	6.5	2.0	1.0	1.5	0.0	0.0	0.0	0.5	0.5	0.5
18	7.0	5.0	6.0	2.5	0.5	1.5	0.0	0.0	0.0	0.5	0.0	0.5
19	8.0	5.0	6.0	3.5	1.0	2.5	0.0	0.0	0.0	0.5	0.5	0.5
20	8.0	6.0	6.5	1.5	0.0	0.5	0.0	0.0	0.0	0.5	0.5	0.5
21	9.0	5.0	6.5	2.0	0.0	0.5	0.0	0.0	0.0	0.5	0.5	0.5
22	9.5	4.0	6.0	4.5	2.0	3.0	0.0	0.0	0.0	0.5	0.5	0.5
23	10.0	4.0	6.5	4.0	1.5	3.0	0.0	0.0	0.0	0.5	0.5	0.5
24	10.5	5.0	7.0	4.0	2.0	3.0	0.0	0.0	0.0	0.5	0.5	0.5
25	8.5	5.0	7.0	5.5	4.0	4.5	0.0	0.0	0.0	0.5	0.5	0.5
26	11.0	7.0	8.5	4.0	2.0	3.0	0.0	0.0	0.0	1.0	0.5	0.5
27	8.5	5.0	7.0	3.5	3.0	3.0	0.5	0.0	0.0	1.0	0.5	1.0
28	5.5	3.0	4.5	4.5	3.5	4.0	1.0	0.0	0.5	1.5	0.5	1.0
29	5.0	3.5	4.0	4.5	3.0	4.0	1.0	0.0	0.5	2.0	1.0	1.5
30	7.5	5.5	7.0	3.0	2.5	2.5	1.0	0.0	0.0	2.5	1.0	1.5
31	8.0	6.5	7.0	---	---	---	0.0	0.0	0.0	3.0	0.5	1.5
MONTH	15.0	3.0	8.0	7.5	0.0	3.0	4.0	0.0	0.5	3.0	0.0	0.5

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	0.5	0.5	0.5	1.0	0.0	0.5	1.5	0.0	0.0	13.0	7.5	10.5
2	0.5	0.5	0.5	1.0	0.0	0.5	1.0	0.0	0.0	11.0	5.0	8.0
3	0.5	0.5	0.5	0.5	0.5	0.5	3.0	0.0	0.5	7.5	6.0	6.5
4	0.5	0.5	0.5	1.0	0.0	0.5	1.0	0.0	0.5	11.0	6.0	8.0
5	0.5	0.5	0.5	0.5	0.0	0.5	1.0	0.5	0.5	12.0	4.5	8.0
6	0.5	0.0	0.5	1.5	0.0	0.5	1.5	0.0	0.5	8.0	6.0	7.0
7	0.5	0.5	0.5	2.5	0.0	1.0	3.5	0.0	1.0	8.0	5.0	6.0
8	0.5	0.0	0.5	1.5	0.0	0.5	3.0	0.5	1.5	9.5	5.0	7.0
9	0.5	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	10.5	6.5	8.0
10	0.5	0.0	0.0	1.5	0.0	0.5	0.5	0.0	0.0	8.0	6.5	7.0
11	0.5	0.0	0.5	0.5	0.0	0.0	3.0	0.0	0.5	12.0	6.5	8.5
12	0.5	0.0	0.5	1.0	0.0	0.0	3.0	0.0	1.0	8.5	7.5	8.0
13	0.5	0.0	0.5	0.0	0.0	0.0	1.5	0.5	1.0	7.0	6.5	7.0
14	0.5	0.0	0.5	0.0	0.0	0.0	6.0	1.0	3.0	14.0	6.0	9.5
15	0.5	0.0	0.0	2.0	0.0	0.5	2.5	1.5	2.0	18.0	9.5	13.5
16	0.5	0.0	0.0	1.0	0.0	0.0	5.5	1.0	3.0	17.5	11.0	14.0
17	0.5	0.0	0.5	0.5	0.0	0.0	7.0	1.0	4.0	18.0	13.0	15.0
18	0.5	0.0	0.0	0.5	0.0	0.0	7.5	2.5	5.0	19.0	12.5	15.0
19	0.0	0.0	0.0	0.0	0.0	0.0	7.5	3.5	5.0	17.0	11.0	14.0
20	0.0	0.0	0.0	1.5	0.0	0.0	8.0	1.5	4.5	16.5	9.5	12.5
21	0.5	0.0	0.0	0.0	0.0	0.0	10.0	2.5	6.0	14.0	8.5	11.5
22	0.0	0.0	0.0	0.0	0.0	0.0	9.5	5.5	7.0	19.0	11.0	15.5
23	0.0	0.0	0.0	0.0	0.0	0.0	8.5	6.5	7.5	16.5	12.0	13.5
24	0.0	0.0	0.0	0.0	0.0	0.0	6.5	4.5	5.5	13.5	11.5	12.0
25	0.0	0.0	0.0	0.0	0.0	0.0	9.0	3.0	5.5	14.5	9.0	11.5
26	0.0	0.0	0.0	0.5	0.0	0.0	8.5	4.0	6.0	12.5	9.5	11.0
27	0.0	0.0	0.0	0.5	0.0	0.0	11.5	3.5	7.5	10.0	9.0	9.5
28	0.5	0.0	0.0	1.5	0.0	0.0	14.0	6.0	9.5	13.0	8.0	10.0
29	---	---	---	0.0	0.0	0.0	16.0	9.0	12.5	10.0	9.0	9.5
30	---	---	---	0.0	0.0	0.0	14.0	11.5	12.5	15.5	9.5	12.5
31	---	---	---	0.5	0.0	0.0	---	---	---	15.0	12.0	13.5
MONTH	0.5	0.0	0.0	2.5	0.0	0.0	16.0	0.0	4.0	19.0	4.5	10.5

01167800 BEAVER BROOK AT WILMINGTON, VT.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974.--Continued

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	16.5	12.5	14.0	20.5	16.0	18.0	20.0	16.0	18.0	20.0	16.5	18.0
2	15.5	11.5	13.5	20.5	14.5	17.5	21.5	16.0	18.5	17.5	16.0	16.5
3	16.5	10.0	13.5	20.5	17.0	18.5	22.5	18.5	20.5	15.5	14.0	15.0
4	19.0	10.5	14.5	23.0	18.0	20.5	23.0	19.5	20.5	15.0	13.5	14.0
5	20.5	13.0	17.0	21.0	18.5	19.0	21.5	17.5	19.5	15.5	11.5	13.5
6	20.0	14.5	17.0	22.0	17.0	19.0	22.0	15.0	17.5	14.0	12.0	13.0
7	20.0	13.0	16.0	23.0	17.0	20.0	20.0	14.5	16.5	15.0	12.5	13.5
8	21.5	12.5	16.5	24.0	18.5	21.0	20.5	14.0	16.5	16.5	13.0	15.0
9	23.5	15.5	19.5	25.0	19.0	22.0	18.5	16.0	17.0	16.5	13.5	15.0
10	25.5	17.5	21.0	25.0	20.0	22.0	21.0	15.0	17.5	18.0	14.0	15.5
11	22.5	16.5	20.0	21.5	16.5	18.5	19.5	12.5	15.5	18.5	14.0	16.0
12	18.5	13.5	15.5	21.5	14.5	17.5	19.5	13.0	16.0	19.5	15.5	17.0
13	20.5	11.5	15.5	23.5	14.0	17.5	18.5	14.0	16.0	21.0	17.5	18.5
14	19.0	12.5	15.5	25.0	17.0	20.0	21.0	15.5	17.5	19.0	14.5	16.5
15	21.5	12.5	16.0	23.5	18.5	21.0	19.5	14.0	16.5	15.0	12.5	14.0
16	16.5	15.5	16.0	22.0	18.0	20.0	19.0	13.5	16.0	15.0	12.5	13.5
17	19.5	15.5	17.5	22.5	15.0	18.5	17.5	14.0	15.5	14.5	10.5	12.5
18	20.5	16.0	18.0	22.5	16.5	19.0	20.5	17.0	18.5	14.5	13.0	14.0
19	19.5	15.0	17.0	22.0	18.0	19.0	21.5	15.5	18.5	13.5	11.5	13.0
20	20.5	16.5	18.0	20.5	15.5	17.5	22.5	16.5	19.0	16.0	13.0	14.5
21	17.5	15.5	16.5	20.5	13.0	16.0	23.0	16.0	18.5	14.5	13.5	14.0
22	20.0	16.0	17.5	21.0	13.0	16.0	21.0	16.0	18.0	13.5	12.0	12.5
23	17.5	15.5	16.5	19.0	14.0	16.0	20.0	17.0	18.0	11.5	9.0	10.5
24	19.0	14.0	16.5	17.5	14.5	15.0	22.5	17.0	19.0	9.5	6.5	8.5
25	16.5	15.0	15.5	19.0	14.0	16.0	21.0	15.0	17.0	9.0	7.0	8.0
26	15.5	14.0	14.5	19.0	14.0	16.5	18.5	14.5	16.5	10.5	8.5	9.5
27	15.5	14.0	14.5	17.5	15.5	16.5	21.0	17.0	18.0	12.0	8.5	10.5
31	---	---	---	20.5	16.0	18.0	18.5	14.5	16.5	---	---	---
MONTH	25.5	10.0	16.5	25.0	13.0	18.5	23.0	12.5	17.5	21.0	6.5	13.5
YEAR	25.5	0.0	8.0									

01177100 CHICOPEE RIVER AT CHICOPEE FALLS, MASS.

LOCATION.--Lat 42°09'37", long 72°34'52", Hampden County, multiple-parameter monitor on right bank on stone pier at Chicopee Falls dam, 300 ft (90 m) upstream from bridge on State Highway 33, and 4.0 mi (6.4 km) upstream from mouth.

DRAINAGE AREA.--711 mi^2 (1,841 km^2).

PERIOD OF RECORD.--Chemical analyses: February 1973, August 1973 to current year.
Water temperatures: February 1973, August 1973 to current year.

EXTREMES.--Current year:
Specific conductance: Maximum, 355 micromhos/cm Apr. 2; minimum recorded, 52 micromhos/cm Feb. 27.
pH: Maximum recorded, 9.1 Nov. 16; minimum, 4.3 June 28.
Dissolved oxygen: Maximum recorded, 13.4 mg/l Jan. 9; minimum, 0.0 mg/l on several days in June.
Temperature: Maximum recorded, 30.0°C July 12; minimum, freezing point on several days during winter period.

Period of record:
Specific conductance: Maximum recorded, 373 micromhos/cm Feb. 2, 1973; minimum recorded, 52 micromhos/cm Feb. 27, 1974.
pH: Maximum recorded, 9.1 Nov. 16, 1973; minimum, 4.3 June 28, 1974.
Dissolved oxygen: Maximum, 15.2 mg/l Feb. 3, 1973; minimum, 0.0 mg/l on many days during summer periods.
Temperature: Maximum recorded, 30.0°C July 12, 1974; minimum, freezing point on several days during winter period.

REMARKS.--Recorder not operating July 20 to September 30.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), OCTOBER 1973 TO JULY 1974

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	299	268	286	142	131	137	136	126	131	---	---	---
2	338	275	306	139	132	136	133	127	130	---	---	---
3	319	157	253	141	132	136	133	124	128	---	---	---
4	306	148	224	138	133	135	149	79	109	---	---	---
5	314	97	155	142	133	138	92	81	86	131	120	123
6	170	95	146	146	96	136	128	80	92	128	119	123
7	160	146	152	147	126	142	128	80	108	130	119	125
8	156	146	151	---	---	---	---	---	---	140	121	139
9	159	88	145	---	---	---	---	---	---	143	123	131
10	160	148	152	---	---	---	---	---	---	155	124	135
11	210	149	168	---	---	---	---	---	---	210	146	177
12	221	156	176	---	---	---	---	---	---	---	---	---
13	178	148	165	---	---	---	---	---	---	---	---	---
14	173	157	165	---	---	---	140	120	131	---	---	---
15	196	143	167	---	---	---	135	124	128	---	---	---
16	176	146	158	167	150	158	136	122	127	---	---	---
17	162	148	155	163	148	156	265	125	152	---	---	---
18	198	153	164	163	149	155	146	123	130	---	---	---
19	198	157	172	168	150	159	138	121	128	---	---	---
20	183	156	168	166	146	155	168	119	133	---	---	---
21	167	152	158	164	148	155	236	112	157	---	---	---
22	165	150	159	161	146	155	---	---	---	---	---	---
23	181	159	169	166	147	152	---	---	---	---	---	---
24	176	158	168	160	147	152	---	---	---	266	154	191
25	179	154	163	157	147	152	---	---	---	176	148	163
26	176	154	164	152	142	146	---	---	---	142	119	127
27	180	156	165	165	137	150	---	---	---	153	112	126
28	176	156	164	158	143	149	---	---	---	120	104	110
29	173	158	162	157	130	143	---	---	---	120	105	112
30	176	144	156	138	127	131	---	---	---	129	112	120
31	149	133	141	---	---	---	---	---	---	138	116	124
MONTH	338	88	174	---	---	---	---	---	---	---	---	---

01177100 CHICOPEE RIVER AT CHICOPEE FALLS, MASS.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), OCTOBER 1973 TO JULY 1974.--Continued

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	112	100	107	121	110	116	94	85	88	152	120	134
2	113	100	108	119	109	115	355	87	110	142	118	124
3	126	106	115	125	109	116	107	92	98	126	119	121
4	127	109	117	131	112	119	129	87	110	---	---	---
5	145	114	122	124	113	118	129	90	107	---	---	---
6	147	109	126	127	110	118	121	99	117	---	---	---
7	---	---	---	131	108	118	100	89	93	---	---	---
8	---	---	---	128	111	117	129	87	104	---	---	---
9	---	---	---	123	110	116	147	117	130	---	---	---
10	---	---	---	121	106	114	164	124	139	---	---	---
11	---	---	---	135	115	122	130	95	112	---	---	---
12	162	117	138	137	117	124	---	---	---	---	---	---
13	151	126	135	135	113	123	---	---	---	---	---	---
14	---	---	---	148	112	128	---	---	---	---	---	---
15	---	---	---	137	110	123	---	---	---	---	---	---
16	---	---	---	151	105	120	---	---	---	---	---	---
17	---	---	---	133	84	99	131	110	118	---	---	---
18	---	---	---	87	76	79	127	111	118	---	---	---
19	---	---	---	81	69	73	132	114	125	---	---	---
20	---	---	---	82	62	71	132	122	127	---	---	---
21	---	---	---	247	70	112	145	122	131	114	100	105
22	---	---	---	94	81	85	154	128	141	117	98	106
23	---	---	---	104	81	93	150	126	132	116	102	109
24	---	---	---	118	79	103	143	128	134	127	106	113
25	---	---	---	122	90	106	137	105	115	121	113	117
26	---	---	---	118	93	104	130	102	113	117	111	114
27	118	52	115	109	98	102	141	99	117	125	108	112
28	120	107	114	118	99	107	146	104	121	123	111	116
29	---	---	---	113	83	103	152	116	128	125	109	117
30	---	---	---	143	83	111	169	122	139	121	95	110
31	---	---	---	148	86	112	---	---	---	110	94	102
MONTH	---	---	---	247	62	109	355	85	119	---	---	---

	JUNE			JULY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN
1	133	98	114	143	105	121
2	107	97	101	138	104	117
3	115	99	105	153	105	122
4	146	109	127	126	105	115
5	152	108	130	142	111	123
6	134	104	115	125	90	98
7	140	99	110	122	92	108
8	117	105	109	121	87	107
9	133	110	121	127	95	105
10	141	117	126	114	94	105
11	164	110	129	125	98	108
12	134	109	119	130	108	116
13	147	102	118	138	114	125
14	137	100	115	147	117	128
15	141	104	123	142	118	130
16	140	117	128	160	121	137
17	138	112	123	167	125	144
18	140	107	119	186	119	139
19	150	110	126	185	118	140
20	140	111	121	---	---	---
21	140	107	120	---	---	---
22	139	108	117	---	---	---
23	135	111	120	---	---	---
24	146	113	124	---	---	---
25	167	112	131	---	---	---
26	169	121	145	---	---	---
27	156	100	130	---	---	---
28	172	102	130	---	---	---
29	154	108	124	---	---	---
30	136	108	122	---	---	---
31	---	---	---	---	---	---
MONTH	172	97	121	---	---	---
PERIOD	355	52	130			

01177100 CHICOPEE RIVER AT CHICOPEE FALLS, MASS.--Continued

PH (UNITS), OCTOBER 1973 TO JULY 1974

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.6	6.2	6.4	7.0	6.8	6.9	---	---	---	---	---	---
2	6.7	6.2	6.4	7.0	6.7	6.9	---	---	---	---	---	---
3	6.6	6.1	6.3	7.0	6.8	6.9	---	---	---	---	---	---
4	6.5	5.9	6.3	6.9	6.7	6.8	---	---	---	---	---	---
5	6.9	6.0	6.6	6.9	6.5	6.7	---	---	---	7.2	4.9	5.5
6	7.2	6.6	7.0	7.0	6.7	6.8	---	---	---	7.0	4.9	6.0
7	7.1	6.3	7.0	7.2	6.8	7.0	---	---	---	7.0	4.8	6.1
8	7.2	6.6	6.9	---	---	---	---	---	---	7.1	4.8	5.9
9	7.0	6.3	6.7	---	---	---	---	---	---	7.2	4.8	6.2
10	6.9	6.3	6.6	---	---	---	---	---	---	7.0	4.8	6.3
11	6.9	6.3	6.6	---	---	---	---	---	---	---	---	---
12	7.2	6.6	6.8	---	---	---	---	---	---	---	---	---
13	6.9	6.3	6.6	---	---	---	---	---	---	---	---	---
14	6.8	6.3	6.6	---	---	---	6.9	6.3	6.5	---	---	---
15	6.9	6.3	6.6	---	---	---	6.7	6.1	6.5	---	---	---
16	6.9	6.2	6.6	9.1	6.4	7.6	6.4	6.0	6.2	---	---	---
17	6.9	6.4	6.7	6.8	6.3	6.5	6.6	5.9	6.4	---	---	---
18	6.9	6.6	6.7	6.5	5.8	6.1	6.7	6.2	6.5	---	---	---
19	7.0	6.4	6.7	6.8	6.0	6.4	6.7	6.2	6.5	---	---	---
20	7.1	6.5	6.8	6.9	6.6	6.8	6.6	6.1	6.4	---	---	---
21	7.1	6.5	6.8	6.8	6.7	6.8	7.4	6.1	6.5	---	---	---
22	7.0	6.7	6.8	8.0	6.1	6.9	---	---	---	---	---	---
23	7.0	6.6	6.8	7.2	6.0	6.7	---	---	---	---	---	---
24	6.9	6.1	6.7	7.8	6.7	7.2	---	---	---	6.9	6.6	6.7
25	7.0	6.2	6.7	7.7	7.0	7.4	---	---	---	6.7	6.5	6.6
26	7.0	6.7	6.9	7.3	6.7	7.0	---	---	---	6.8	6.3	6.6
27	6.8	6.6	6.7	7.0	6.5	6.8	---	---	---	6.7	6.3	6.6
28	6.7	6.4	6.6	6.9	6.4	6.7	---	---	---	6.6	6.3	6.5
29	7.2	6.3	6.6	6.8	6.6	6.7	---	---	---	6.8	6.4	6.6
30	7.4	6.0	7.1	---	---	---	---	---	---	6.7	6.3	6.6
31	7.3	7.0	7.1	---	---	---	---	---	---	6.8	6.4	6.6
MONTH	7.4	5.9	6.7	---	---	---	---	---	---	---	---	---

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.7	6.4	6.6	6.5	6.3	6.4	---	---	---	---	---	---
2	6.9	6.5	6.7	6.4	6.3	6.4	6.5	5.2	6.1	---	---	---
3	6.9	6.6	6.7	6.4	6.3	6.3	6.6	5.2	6.1	---	---	---
4	6.8	6.4	6.7	6.5	6.3	6.4	6.8	5.1	5.8	---	---	---
5	7.0	6.4	6.8	6.4	6.2	6.3	6.6	5.1	6.2	---	---	---
6	6.9	6.5	6.7	7.0	5.2	6.1	6.0	4.7	5.0	---	---	---
7	---	---	---	5.4	5.0	5.2	6.4	6.0	6.2	---	---	---
8	---	---	---	5.9	5.4	5.5	6.4	4.8	5.7	---	---	---
9	---	---	---	5.6	5.5	5.5	6.3	4.6	5.1	---	---	---
10	---	---	---	5.7	5.4	5.6	6.4	4.4	5.8	---	---	---
11	6.7	6.6	6.6	6.4	5.5	5.9	---	---	---	---	---	---
12	7.1	6.4	6.6	6.1	5.5	5.9	---	---	---	---	---	---
13	6.7	6.4	6.6	6.2	5.5	5.9	---	---	---	---	---	---
14	6.7	6.3	6.5	6.3	5.6	6.0	---	---	---	---	---	---
15	6.6	6.4	6.5	6.5	6.0	6.3	---	---	---	---	---	---
16	---	---	---	6.5	5.8	6.3	---	---	---	---	---	---
17	6.5	6.3	6.4	6.6	6.1	6.3	---	---	---	---	---	---
18	6.7	6.1	6.5	6.6	5.8	6.3	6.6	6.2	6.3	---	---	---
19	6.7	6.4	6.5	6.5	5.4	6.2	6.3	6.1	6.2	---	---	---
20	6.6	6.3	6.5	6.6	5.9	6.2	6.3	6.0	6.2	---	---	---
21	6.6	6.3	6.5	6.4	5.2	5.8	6.3	5.3	6.1	---	---	---
22	6.9	6.1	6.5	6.7	6.2	6.5	6.2	4.5	5.9	---	---	---
23	6.8	6.3	6.6	6.5	5.1	5.9	6.3	4.7	6.1	---	---	---
24	6.7	6.4	6.6	6.6	5.1	5.6	6.3	6.1	6.3	---	---	---
25	6.7	6.4	6.6	6.4	5.2	5.8	6.0	4.6	5.6	---	---	---
26	6.7	6.5	6.6	6.9	4.9	6.1	6.4	4.5	6.0	---	---	---
27	6.7	6.3	6.5	6.7	6.2	6.5	6.4	4.4	5.8	---	---	---
28	6.6	6.4	6.5	6.7	6.2	6.5	6.6	5.2	6.2	---	---	---
29	---	---	---	6.6	6.3	6.4	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	6.5	5.8	6.3
31	---	---	---	---	---	---	---	---	---	6.5	5.8	6.2
MONTH	7.1	6.1	6.6	7.0	4.9	6.1	---	---	---	---	---	---

01177100 CHICOPEE RIVER AT CHICOPEE FALLS, MASS.--Continued

PH (UNITS), OCTOBER 1973 TO JULY 1974.--Continued

	JUNE			JULY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.4	6.2	6.3	6.4	5.1	6.0
2	6.2	5.7	6.1	6.4	6.0	6.2
3	6.2	5.9	6.1	6.4	5.8	6.2
4	6.4	5.6	6.1	6.5	5.9	6.2
5	6.3	5.5	6.2	6.5	5.9	6.2
6	6.4	5.5	6.2	6.4	5.6	6.1
7	6.3	5.4	6.1	6.2	5.2	5.9
8	6.3	5.9	6.1	6.3	5.3	6.1
9	6.4	5.6	6.1	6.5	5.5	6.2
10	6.5	5.8	6.2	6.7	6.2	6.5
11	6.4	5.9	6.2	6.6	5.1	6.2
12	6.5	6.1	6.4	6.6	6.0	6.3
13	6.3	5.9	6.2	6.4	5.4	6.1
14	6.6	5.9	6.3	6.3	5.3	6.1
15	6.6	6.0	6.4	6.4	5.3	6.0
16	6.4	5.7	6.2	6.4	5.8	6.2
17	6.5	5.9	6.2	6.5	5.6	6.2
18	6.5	6.0	6.3	6.4	5.9	6.2
19	6.4	5.0	6.0	6.6	6.1	6.3
20	6.4	5.9	6.2	---	---	---
21	6.3	5.8	6.2	---	---	---
22	6.5	6.0	6.3	---	---	---
23	6.6	5.4	6.3	---	---	---
24	6.7	5.2	6.4	---	---	---
25	6.7	4.8	6.4	---	---	---
26	6.8	4.9	5.7	---	---	---
27	6.0	4.6	5.6	---	---	---
28	6.1	4.3	5.5	---	---	---
29	6.4	4.8	5.8	---	---	---
30	6.6	4.7	5.9	---	---	---
31	---	---	---	---	---	---
MONTH	6.8	4.3	6.1	---	---	---
PERIOD	9.1	4.3	6.4			

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, OCTOBER 1973 TO JULY 1974

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	0.2	0.0	0.0	9.7	7.8	8.8	9.3	8.0	8.6	---	---	---
2	0.1	0.0	0.0	10.0	8.7	9.2	9.1	7.9	8.4	---	---	---
3	0.3	0.0	0.1	9.3	7.9	8.6	8.9	7.8	8.4	---	---	---
4	0.3	0.0	0.1	9.6	8.2	8.9	9.4	7.4	8.7	---	---	---
5	0.3	0.0	0.2	10.0	8.5	9.1	9.0	8.0	8.5	13.0	10.0	11.5
6	---	---	---	9.6	8.1	9.0	9.9	8.3	9.0	13.2	10.5	12.3
7	---	---	---	9.4	7.5	8.5	9.8	8.9	9.5	13.3	10.1	12.2
8	---	---	---	---	---	---	---	---	---	13.1	10.2	11.6
9	---	---	---	---	---	---	---	---	---	13.4	11.8	13.0
10	---	---	---	---	---	---	---	---	---	12.7	10.8	12.3
11	2.7	1.9	2.3	---	---	---	---	---	---	12.8	11.5	12.5
12	2.7	1.5	1.9	---	---	---	---	---	---	---	---	---
13	1.7	1.5	1.6	---	---	---	---	---	---	---	---	---
14	1.7	1.4	1.6	---	---	---	9.9	9.6	9.8	---	---	---
15	2.5	1.4	1.7	---	---	---	10.6	9.8	10.2	---	---	---
16	2.4	1.4	1.7	6.9	6.1	6.5	10.7	9.9	10.4	---	---	---
17	1.6	1.3	1.4	7.6	6.2	6.8	10.6	9.5	10.3	---	---	---
18	1.5	1.3	1.4	7.4	6.3	6.8	12.5	10.6	11.8	---	---	---
19	1.7	1.4	1.5	6.9	5.4	6.3	12.6	11.9	12.3	---	---	---
20	1.6	1.2	1.4	7.7	6.5	7.0	12.6	11.9	12.4	---	---	---
21	1.5	1.2	1.3	7.6	6.6	7.1	13.0	12.0	12.4	---	---	---
22	1.3	1.2	1.2	7.1	6.1	6.5	---	---	---	---	---	---
23	1.4	1.2	1.2	6.8	6.0	6.5	---	---	---	---	---	---
24	1.4	1.2	1.2	7.1	6.2	6.7	---	---	---	12.3	11.7	12.2
25	1.4	0.8	1.0	7.0	5.9	6.4	---	---	---	12.4	11.3	12.2
26	1.0	0.6	0.8	7.1	6.0	6.6	---	---	---	12.9	12.1	12.6
27	1.2	0.8	1.0	8.0	5.5	6.5	---	---	---	12.6	12.1	12.4
28	1.4	1.2	1.3	8.1	6.6	7.3	---	---	---	12.5	11.8	12.4
29	2.5	1.6	1.9	8.6	6.9	7.6	---	---	---	12.2	11.4	11.8
30	7.4	2.4	4.8	8.9	8.1	8.4	---	---	---	12.0	11.0	11.5
31	8.3	6.6	7.5	---	---	---	---	---	---	11.9	11.6	11.8
MONTH	8.3	0.0	1.5	---	---	---	---	---	---	---	---	---

01177100 CHICOPEE RIVER AT CHICOPEE FALLS, MASS.--Continued

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, OCTOBER 1973 TO JULY 1974.--Continued

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	12.2	11.6	12.0	12.1	11.4	11.9	10.9	10.6	10.7	5.5	4.8	5.1
2	12.2	10.8	11.8	11.9	11.6	11.7	12.1	10.5	11.2	5.2	4.8	4.9
3	11.7	11.4	11.6	11.8	11.3	11.7	11.9	11.4	11.6	4.9	4.8	4.8
4	12.1	11.2	11.8	12.2	10.9	11.7	12.2	11.3	11.8	---	---	---
5	12.2	11.4	12.0	11.2	10.3	10.9	12.3	11.2	11.6	---	---	---
6	12.1	11.2	11.8	11.1	10.5	11.0	12.7	12.1	12.3	---	---	---
7	---	---	---	---	---	---	12.0	11.5	11.6	---	---	---
8	---	---	---	---	---	---	12.4	11.5	11.9	---	---	---
9	---	---	---	---	---	---	12.6	11.4	12.1	---	---	---
10	---	---	---	---	---	---	12.8	11.4	11.7	---	---	---
11	---	---	---	---	---	---	11.9	11.4	11.5	---	---	---
12	12.3	11.6	12.1	---	---	---	---	---	---	---	---	---
13	12.3	11.2	12.0	---	---	---	---	---	---	---	---	---
14	12.3	11.5	12.1	---	---	---	---	---	---	---	---	---
15	12.5	11.4	12.2	10.4	9.6	9.9	---	---	---	---	---	---
16	---	---	---	9.9	9.5	9.8	---	---	---	---	---	---
17	12.4	11.7	12.1	10.7	9.6	10.2	9.6	9.1	9.4	---	---	---
18	12.6	11.9	12.3	---	---	---	9.0	8.8	8.9	---	---	---
19	12.5	12.0	12.3	---	---	---	8.4	8.3	8.3	---	---	---
20	12.5	12.1	12.4	---	---	---	7.9	7.7	7.8	---	---	---
21	12.7	11.9	12.5	---	---	---	7.7	7.2	7.4	6.0	4.3	4.7
22	12.6	11.7	12.2	12.8	12.4	12.7	7.7	6.5	7.0	4.7	4.4	4.5
23	13.0	11.8	12.5	13.3	12.3	12.9	6.9	6.1	6.4	4.7	4.5	4.6
24	13.1	12.6	12.9	13.2	12.4	12.8	6.0	5.5	5.7	4.6	4.5	4.6
25	13.1	12.6	12.8	13.2	12.3	12.7	6.0	5.1	5.6	4.7	4.6	4.7
26	12.9	12.5	12.7	13.0	12.1	12.4	6.1	5.0	5.3	4.8	4.7	4.8
27	12.8	12.3	12.6	12.2	11.9	12.0	6.3	5.3	5.7	4.9	4.8	4.8
28	12.4	11.9	12.2	12.6	11.5	11.9	6.3	4.9	5.5	5.0	4.8	4.9
29	---	---	---	12.5	11.1	11.6	5.7	4.9	5.1	5.1	4.8	4.9
30	---	---	---	12.1	11.1	11.6	5.5	4.9	5.2	5.1	4.0	4.6
31	---	---	---	11.8	10.9	11.3	---	---	---	4.1	3.7	3.8
MONTH	13.1	10.8	12.2	---	---	---	12.8	4.9	8.9	---	---	---

	JUNE			JULY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN
1	4.6	3.6	4.1	1.5	0.3	0.7
2	4.3	3.7	3.9	1.9	0.3	0.7
3	4.4	3.1	3.7	1.3	0.3	0.6
4	4.1	3.0	3.6	1.2	0.3	0.7
5	2.9	1.9	2.1	1.2	0.4	0.8
6	2.2	1.6	1.7	1.2	0.7	1.0
7	1.6	1.1	1.3	1.5	0.8	1.0
8	2.5	1.2	1.8	1.6	0.8	1.1
9	2.4	1.1	1.5	1.2	0.4	0.7
10	2.4	0.5	1.4	0.9	0.4	0.5
11	1.9	0.3	0.8	1.2	0.4	0.6
12	1.1	0.1	0.2	1.3	0.4	0.6
13	0.0	0.0	0.2	1.3	0.3	0.5
14	1.2	0.0	0.3	1.3	0.3	0.5
15	1.5	0.0	0.3	1.3	0.4	0.7
16	0.3	0.0	0.0	0.9	0.4	0.6
17	1.0	0.0	0.0	1.0	0.4	0.6
18	0.0	0.0	0.0	0.8	0.4	0.6
19	0.8	0.0	0.0	0.8	0.4	0.5
20	0.1	0.0	0.0	---	---	---
21	0.5	0.0	0.0	---	---	---
22	0.5	0.0	0.2	---	---	---
23	1.0	0.0	0.2	---	---	---
24	1.3	0.0	0.1	---	---	---
25	1.1	0.0	0.0	---	---	---
26	1.2	0.0	0.7	---	---	---
27	1.7	0.2	0.8	---	---	---
28	1.8	0.5	1.2	---	---	---
29	1.5	0.2	0.8	---	---	---
30	1.9	0.3	1.1	---	---	---
31	---	---	---	---	---	---
MONTH	4.6	0.0	1.1	---	---	---
PERIOD	13.4	0.0	6.6			

01177100 CHICOPEE RIVER AT CHICOPEE FALLS, MASS.--Continued

TEMPERATURE (°C) OF WATER, OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	17.5	14.5	16.0	12.0	10.5	11.0	6.0	4.0	5.0	---	---	---
2	17.0	14.5	16.0	12.5	9.5	10.5	5.0	3.0	4.0	---	---	---
3	19.0	16.0	17.0	10.5	9.5	10.0	4.5	3.0	4.0	---	---	---
4	19.0	16.0	17.5	9.5	7.5	8.5	6.5	4.0	5.5	---	---	---
5	16.5	16.0	17.5	8.0	6.5	7.5	10.5	5.5	7.0	2.0	1.5	1.5
6	18.0	15.5	17.0	7.0	6.0	6.5	11.0	6.0	8.0	2.0	1.5	1.5
7	18.0	16.0	17.0	6.0	5.0	5.5	6.5	5.5	6.0	2.0	1.0	1.5
8	17.5	15.5	16.5	---	---	---	---	---	---	1.5	1.0	1.5
9	18.0	14.5	16.5	---	---	---	---	---	---	1.5	1.0	1.0
10	18.0	15.5	16.5	---	---	---	---	---	---	2.0	1.0	1.0
11	17.0	15.0	16.0	---	---	---	---	---	---	---	---	---
12	15.5	13.5	14.5	---	---	---	---	---	---	---	---	---
13	15.5	14.0	14.5	---	---	---	---	---	---	---	---	---
14	16.5	15.0	16.0	---	---	---	5.5	3.5	4.5	---	---	---
15	16.5	14.0	15.5	---	---	---	3.5	0.5	2.0	---	---	---
16	14.5	13.0	13.5	8.5	6.0	7.5	---	---	---	---	---	---
17	13.5	12.0	13.0	5.5	3.5	4.0	---	---	---	---	---	---
18	13.0	11.5	12.0	5.5	3.5	4.5	---	---	---	---	---	---
19	13.0	11.0	12.0	6.5	5.0	6.0	---	---	---	---	---	---
20	13.0	11.0	12.0	5.5	2.5	4.0	---	---	---	---	---	---
21	12.5	10.0	11.5	6.0	2.0	3.5	---	---	---	---	---	---
22	12.0	10.5	11.5	7.0	5.0	6.5	---	---	---	---	---	---
23	13.0	11.0	12.0	6.5	5.0	5.5	---	---	---	---	---	---
24	13.5	11.5	12.5	7.5	4.5	6.0	---	---	---	1.5	0.0	1.0
25	14.5	11.5	13.0	7.5	7.0	7.5	---	---	---	2.5	1.0	1.5
26	14.0	12.5	13.0	6.5	5.0	6.0	---	---	---	3.5	2.5	3.0
27	13.5	12.0	13.0	7.5	5.5	6.5	---	---	---	3.5	3.0	3.0
28	12.5	10.5	11.0	7.0	5.5	6.5	---	---	---	3.5	2.5	3.0
29	12.5	10.5	11.0	8.0	6.5	7.0	---	---	---	4.5	3.0	3.5
30	13.5	11.0	12.0	6.5	5.5	6.0	---	---	---	4.5	3.5	4.0
31	12.5	10.5	11.0	---	---	---	---	---	---	4.5	3.0	3.5
MONTH	19.0	10.0	14.0	---	---	---	---	---	---	---	---	---

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	3.0	2.5	3.0	4.5	3.0	3.5	4.5	3.5	4.0	16.5	14.0	15.0
2	3.0	1.5	2.0	4.0	3.0	3.5	6.0	4.5	5.0	16.5	13.5	15.0
3	1.5	0.5	1.0	4.0	3.5	4.0	10.0	4.5	7.0	14.5	14.5	14.5
4	1.5	0.5	1.0	5.5	3.5	4.5	11.0	8.0	9.5	---	---	---
5	1.0	0.0	0.5	6.0	5.0	5.5	12.0	10.0	11.0	---	---	---
6	2.0	0.0	1.0	7.5	4.0	5.5	12.0	10.5	11.5	---	---	---
7	---	---	---	9.0	6.0	7.5	15.0	11.5	13.0	---	---	---
8	---	---	---	8.0	7.0	7.5	12.5	10.0	11.5	---	---	---
9	---	---	---	7.0	6.5	7.0	9.5	8.0	9.0	---	---	---
10	---	---	---	7.5	6.5	7.0	10.0	7.5	8.5	---	---	---
11	---	---	---	7.5	5.5	6.5	10.5	7.0	8.0	---	---	---
12	2.0	0.0	1.0	7.5	5.0	6.0	---	---	---	---	---	---
13	2.5	0.5	1.0	6.5	4.0	5.0	---	---	---	---	---	---
14	2.5	0.5	1.5	6.5	4.0	5.0	---	---	---	---	---	---
15	---	---	---	7.0	4.0	5.5	---	---	---	---	---	---
16	---	---	---	6.0	5.0	5.0	---	---	---	---	---	---
17	---	---	---	5.5	4.5	5.0	13.5	10.5	12.0	---	---	---
18	3.0	0.0	1.0	5.5	4.5	5.0	13.5	11.5	12.0	---	---	---
19	3.5	0.0	1.5	6.0	4.5	5.0	13.0	11.0	12.0	---	---	---
20	---	---	---	6.5	4.5	5.0	14.0	10.5	12.0	---	---	---
21	---	---	---	6.0	4.5	5.5	14.5	11.0	13.0	21.5	19.0	20.5
22	3.5	2.0	3.0	4.5	3.0	4.0	14.5	11.0	13.0	22.5	18.5	20.0
23	3.5	2.5	3.0	5.0	2.5	4.0	14.0	11.0	13.0	20.0	18.0	19.0
24	4.0	2.0	2.5	5.5	3.5	5.0	15.0	12.0	13.0	18.5	17.5	18.0
25	3.0	2.0	2.5	6.0	3.5	4.5	14.5	11.0	13.5	18.5	16.0	17.5
26	4.0	2.0	2.5	5.5	3.5	4.5	14.0	10.0	12.0	17.5	15.5	16.5
27	4.0	2.0	2.5	5.0	3.5	4.0	15.5	10.0	12.5	16.0	15.0	15.5
28	4.5	2.0	3.0	5.5	3.5	4.5	15.5	10.5	13.5	17.0	14.0	15.0
29	---	---	---	4.5	2.0	3.5	16.5	12.5	14.5	15.5	14.5	15.0
30	---	---	---	4.5	2.0	3.5	16.5	13.5	15.0	16.5	14.0	15.0
31	---	---	---	5.0	3.0	4.0	---	---	---	16.5	13.5	15.0
MONTH	---	---	---	9.0	2.0	5.0	16.5	3.5	11.0	---	---	---

01177100 CHICOPEE RIVER AT CHICOPEE FALLS, MASS.--Continued

TEMPERATURE (°C) OF WATER, OCTOBER 1973 TO JULY 1974.--Continued.

	JUNE			JULY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN
1	17.0	15.0	16.0	24.5	17.0	21.5
2	17.5	15.0	16.5	25.5	15.5	22.5
3	20.0	15.5	17.5	25.0	22.0	23.5
4	21.0	16.0	18.0	27.0	22.5	25.0
5	22.0	16.5	19.5	26.5	16.0	24.5
6	23.0	18.0	20.5	25.0	22.0	24.0
7	23.0	18.5	21.0	25.5	20.0	23.5
8	23.5	20.0	21.5	27.0	20.5	24.5
9	26.0	18.5	22.5	28.0	23.0	26.0
10	26.5	20.5	24.0	29.0	24.5	27.0
11	26.0	22.5	24.5	27.5	23.0	25.5
12	24.0	21.5	22.5	30.0	22.0	25.0
13	24.5	20.5	22.5	26.5	20.5	23.5
14	24.0	20.5	22.0	27.0	22.0	24.0
15	24.5	20.5	22.5	26.5	21.0	24.0
16	22.5	20.0	21.5	26.5	23.0	24.5
17	23.5	20.5	22.0	26.5	22.5	24.5
18	24.5	20.5	22.5	26.5	23.5	25.0
19	24.0	17.0	21.5	25.5	24.0	24.5
20	24.5	19.5	22.5	---	---	---
21	23.5	21.0	22.5	---	---	---
22	26.5	21.0	24.5	---	---	---
23	25.0	20.0	22.5	---	---	---
24	26.5	18.0	23.5	---	---	---
25	25.5	21.5	23.0	---	---	---
26	23.0	17.0	19.5	---	---	---
27	21.0	19.0	19.5	---	---	---
28	23.0	15.5	19.5	---	---	---
29	22.5	17.0	20.0	---	---	---
30	24.5	16.0	21.0	---	---	---
31	---	---	---	---	---	---
MONTH	26.5	15.0	21.0	---	---	---
PERIOD	30.0	0.0	11.5			

01177200 CONNECTICUT RIVER AT WEST SPRINGFIELD, MASS.

LOCATION.--Lat 42°05'46", long 72°35'43", Hampden County, four-parameter monitor on right bank at powerplant intake 800 ft (250 m) downstream from Memorial Bridge, 1.1 mi (1.8 km) upstream from Westfield River, 1.5 mi (2.4 km) southeast of West Springfield, and 4.4 mi (7.1 km) downstream from Chicopee River.

DRAINAGE AREA.--9,623 mi^2 (24,924 km^2).

PERIOD OF RECORD.--Chemical analyses: August 1972 to current year.
Water temperatures: August 1972 to current year.

EXTREMES.--Current year:
Specific conductance: Maximum, 279 micromhos Jan. 19; minimum, 59 micromhos May 6.
pH: Maximum recorded, 7.7 Aug. 13; minimum, 6.2 Sept. 30.
Dissolved oxygen: Maximum, 15.3 mg/l Dec. 23; minimum recorded, 3.5 mg/l June 16.
Water temperatures: Maximum, 27.5°C Aug. 25; minimum, freezing point on several days during winter period.

Period of record:
Specific conductance: Maximum, 279 micromhos Jan. 19, 1974; minimum, 54 micromhos July 1, 1973.
pH: Maximum, 8.2 Oct. 24, 1972; minimum, 6.2 Sept. 30, 1974.
Dissolved oxygen: Maximum, 16.3 mg/l Jan. 6, 1973; minimum, 2.7 mg/l Sept. 5, 1973.
Water temperatures: Maximum, 30.5°C Sept. 3, 1973; minimum, freezing point on several days during winter periods.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	155	143	147	130	124	127	114	111	112	83	75	80
2	155	146	150	137	126	131	114	111	113	81	79	80
3	155	147	150	131	121	125	119	111	115	83	79	81
4	153	144	149	122	118	120	124	120	122	98	82	90
5	150	139	145	133	119	125	121	116	120	93	85	88
6	143	137	140	130	122	125	119	114	117	89	86	87
7	136	130	132	125	119	123	114	108	111	91	86	88
8	143	129	136	128	123	125	107	102	105	98	89	91
9	143	136	140	129	123	126	111	102	106	93	89	91
10	140	133	136	128	123	126	105	102	103	104	94	97
11	137	132	135	128	124	126	102	96	99	149	101	118
12	146	134	140	134	128	132	102	96	99	131	109	114
13	149	143	145	133	127	131	102	98	100	114	111	113
14	151	142	145	133	126	129	105	98	100	122	111	114
15	158	142	146	133	127	130	103	98	101	126	121	123
16	149	142	144	133	127	130	102	98	100	128	120	122
17	148	142	144	128	118	122	159	98	117	125	113	117
18	146	141	143	122	118	120	120	102	107	124	115	120
19	147	140	142	126	120	123	111	104	106	279	125	169
20	142	135	138	129	126	127	138	90	109	209	135	153
21	140	135	137	130	126	129	216	104	149	256	132	159
22	146	139	141	130	127	128	101	72	82	205	155	175
23	143	137	140	132	127	129	81	72	76	165	134	149
24	141	136	138	131	124	127	81	72	75	148	124	130
25	144	131	135	128	123	124	84	78	81	126	122	124
26	136	131	134	130	126	128	96	82	88	128	120	124
27	139	135	137	126	120	123	100	96	98	149	120	124
28	143	137	141	125	117	119	127	76	99	121	106	115
29	142	135	138	121	112	116	78	69	74	106	99	103
30	140	128	135	117	113	115	71	69	70	97	93	94
31	141	130	133	---	---	---	79	69	74	94	92	93
MONTH	158	128	141	137	112	125	216	69	101	279	75	114

01177200 CONNECTICUT RIVER AT WEST SPRINGFIELD, MASS.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974.--Continued

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	90	88	89	104	101	102	131	125	128	94	80	82
2	95	88	91	105	101	103	129	115	123	85	80	83
3	102	95	98	105	103	104	126	118	121	83	63	74
4	102	100	101	111	103	108	127	113	122	63	60	62
5	109	100	105	111	109	110	121	104	109	63	60	61
6	112	108	110	109	102	105	99	82	92	63	59	60
7	127	110	115	103	100	101	85	74	80	83	60	66
8	118	111	113	101	92	98	83	71	74	71	66	68
9	119	110	112	98	90	94	98	75	87	75	68	70
10	113	109	110	102	68	90	118	84	98	92	74	81
11	117	111	112	90	60	77	109	103	105	86	81	84
12	127	110	113	92	74	80	105	85	96	109	79	82
13	122	114	117	98	74	82	115	86	96	82	75	80
14	116	112	114	99	79	90	104	96	98	74	70	73
15	118	109	113	110	74	102	113	89	100	78	70	73
16	125	115	119	123	104	111	91	82	86	78	73	76
17	125	117	121	116	105	111	94	76	84	85	73	76
18	141	119	122	108	97	102	81	76	78	80	78	79
19	192	113	127	109	103	106	86	78	81	82	78	80
20	142	124	130	110	107	108	79	77	78	88	82	84
21	130	124	127	176	96	111	80	78	79	89	87	88
22	141	123	129	103	96	100	88	79	82	94	88	91
23	127	115	120	112	98	101	89	87	88	98	91	94
24	114	110	112	114	111	112	86	84	85	113	96	100
25	111	106	108	114	111	113	86	82	84	99	92	95
26	112	110	111	119	112	116	83	77	78	110	94	96
27	113	102	107	118	114	116	78	74	77	111	69	92
28	102	76	99	122	108	117	79	77	79	106	72	86
29	---	---	---	119	106	111	79	77	78	---	---	---
30	---	---	---	176	119	142	113	79	82	83	80	82
31	---	---	---	176	127	134	---	---	---	87	81	84
MONTH	192	76	112	176	60	105	131	71	92	113	59	80

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	122	85	89	122	110	114	---	---	---	146	139	142
2	90	87	89	117	108	112	---	---	---	151	142	146
3	94	88	91	---	---	---	---	---	---	---	---	---
4	94	93	94	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	102	98	100	---	---	---	---	---	---	---	---	---
8	105	100	103	---	---	---	123	121	122	---	---	---
9	105	99	102	---	---	---	126	122	124	---	---	---
10	105	99	103	---	---	---	139	121	129	139	133	136
11	105	97	101	120	114	117	145	129	136	136	128	133
12	105	96	100	119	112	116	147	132	141	139	131	134
13	119	98	107	119	109	114	140	129	132	139	131	135
14	123	110	117	120	111	115	139	129	134	139	128	134
15	119	109	114	121	112	116	134	130	131	142	132	137
16	123	109	115	120	108	114	---	---	---	141	131	136
17	130	90	114	113	104	109	---	---	---	140	131	136
18	---	---	---	111	101	108	---	---	---	139	128	132
19	---	---	---	111	106	108	---	---	---	139	130	135
20	---	---	---	---	---	---	---	---	---	139	116	128
21	---	---	---	---	---	---	---	---	---	122	108	116
22	---	---	---	---	---	---	145	143	144	125	114	118
23	---	---	---	---	---	---	151	142	147	121	111	117
24	113	110	112	---	---	---	148	141	144	127	111	119
25	115	110	113	---	---	---	156	142	147	127	116	122
26	117	112	115	---	---	---	162	144	149	128	116	121
27	121	116	118	---	---	---	151	142	146	130	120	127
28	118	114	116	---	---	---	153	145	149	132	118	125
29	119	116	117	---	---	---	153	142	147	124	113	118
30	121	115	117	---	---	---	151	143	146	126	119	122
31	---	---	---	---	---	---	149	141	145	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---
YEAR	279	59	112									

CONNECTICUT RIVER BASIN

01177200 CONNECTICUT RIVER AT WEST SPRINGFIELD, MASS.--Continued

PH (UNITS), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	7.0	6.9	6.9	6.9	6.8	6.8	7.0	7.0	7.0	7.0	7.0	7.0
2	7.0	7.0	7.0	7.0	6.8	6.9	7.0	7.0	7.0	7.0	7.0	7.0
3	7.0	6.9	7.0	7.0	6.8	6.9	7.1	7.0	7.0	7.0	7.0	7.0
4	7.0	6.9	7.0	6.8	6.7	6.8	7.0	7.0	7.0	7.0	7.0	7.0
5	7.0	6.9	7.0	7.2	6.8	7.0	7.1	6.9	7.0	7.0	6.9	7.0
6	7.1	7.0	7.1	7.0	6.9	6.9	7.0	7.0	7.0	7.0	6.9	7.0
7	7.1	7.0	7.0	6.9	6.8	6.9	7.0	6.8	6.9	7.0	6.9	7.0
8	7.1	7.0	7.0	6.9	6.8	6.9	6.8	6.8	6.8	7.1	7.0	7.0
9	7.1	7.0	7.0	6.9	6.8	6.9	6.8	6.8	6.8	7.2	7.1	7.1
10	7.0	6.9	6.9	6.8	6.8	6.8	6.9	6.8	6.8	7.2	7.1	7.1
11	6.9	6.9	6.9	6.8	6.8	6.8	6.8	6.8	6.8	7.3	7.0	7.0
12	7.0	6.8	7.0	6.8	6.7	6.8	6.8	6.7	6.8	7.1	7.1	7.1
13	7.0	6.9	6.9	6.8	6.8	6.8	7.0	6.8	6.9	7.0	7.0	7.0
14	7.1	6.9	6.9	6.8	6.7	6.8	7.0	6.9	6.9	7.1	6.9	7.0
15	7.2	6.8	6.9	6.8	6.7	6.7	7.0	6.9	7.0	7.0	7.0	7.0
16	7.2	7.0	7.0	7.0	6.7	6.9	7.0	6.9	6.9	7.1	7.0	7.1
17	7.0	6.9	7.0	7.1	7.0	7.0	7.1	7.0	7.1	7.1	7.0	7.0
18	7.0	6.9	7.0	7.1	7.0	7.0	7.1	7.0	7.0	7.1	7.0	7.0
19	7.0	6.9	7.0	7.2	7.1	7.2	7.2	7.0	7.0	7.1	7.1	7.1
20	6.9	6.9	6.9	7.2	7.1	7.1	7.1	7.0	7.0	7.1	7.0	7.1
21	6.9	6.8	6.9	7.1	7.0	7.1	7.3	7.0	7.1	7.1	7.0	7.0
22	6.8	6.7	6.8	7.1	7.0	7.0	7.2	7.0	7.1	7.3	7.1	7.2
23	6.9	6.8	6.9	7.0	6.9	7.0	7.2	7.0	7.1	7.3	7.1	7.2
24	6.9	6.8	6.8	7.0	7.0	7.0	7.1	7.0	7.1	7.2	7.0	7.1
25	6.8	6.8	6.8	7.0	7.0	7.0	7.1	7.0	7.0	7.1	7.0	7.1
26	6.9	6.7	6.8	7.0	7.0	7.0	7.0	7.0	7.0	7.1	7.1	7.1
27	6.8	6.7	6.8	7.0	6.9	7.0	7.1	7.0	7.0	7.3	7.0	7.1
28	6.8	6.7	6.7	7.0	6.8	6.9	7.0	7.0	7.0	7.2	7.1	7.1
29	6.8	6.7	6.8	6.9	6.9	6.9	7.0	6.9	7.0	7.1	7.1	7.1
30	6.9	6.8	6.8	7.1	6.9	7.0	7.0	6.9	7.0	7.1	7.0	7.1
31	7.1	6.9	7.0	---	---	---	7.1	7.0	7.0	7.0	7.0	7.0
MONTH	7.2	6.7	6.9	7.2	6.7	6.9	7.3	6.7	7.0	7.3	6.9	7.1

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	7.0	7.0	7.0	7.3	7.1	7.2	7.0	6.9	6.9	7.0	6.9	7.0
2	7.1	7.0	7.0	7.2	7.1	7.2	7.1	6.9	7.0	7.0	6.9	7.0
3	7.0	6.9	7.0	7.1	7.1	7.1	7.1	7.1	7.1	6.9	6.8	6.9
4	6.9	6.9	6.9	7.1	7.0	7.1	7.1	7.1	7.1	6.9	6.8	6.9
5	7.0	6.9	7.0	7.1	7.0	7.0	7.2	7.1	7.2	6.8	6.8	6.8
6	7.0	6.9	7.0	7.1	7.0	7.0	7.2	7.1	7.1	6.8	6.8	6.8
7	7.1	7.0	7.0	7.0	7.0	7.0	7.1	7.1	7.1	6.9	6.7	6.8
8	7.0	6.8	6.9	7.0	6.9	7.0	7.1	7.0	7.1	6.8	6.7	6.8
9	6.9	6.8	6.8	7.0	6.9	7.0	7.3	7.0	7.1	6.8	6.7	6.7
10	6.8	6.8	6.8	7.1	6.9	6.9	7.1	7.1	7.1	6.8	6.7	6.7
11	6.8	6.8	6.8	7.4	7.0	7.1	7.1	7.1	7.1	6.8	6.7	6.8
12	6.8	6.8	6.8	7.0	6.9	6.9	7.1	6.9	7.0	6.9	6.7	6.8
13	6.8	6.8	6.8	7.0	6.9	7.0	7.0	6.9	6.9	6.9	6.8	6.8
14	6.9	6.8	6.9	7.0	6.9	7.0	6.9	6.9	6.9	6.8	6.8	6.8
15	7.2	6.8	6.9	7.0	6.8	6.9	7.0	6.9	7.0	6.9	6.8	6.8
16	7.1	6.9	6.9	6.9	6.8	6.9	7.0	6.9	7.0	6.9	6.8	6.8
17	6.9	6.8	6.9	6.9	6.8	6.9	7.0	6.9	7.0	6.9	6.7	6.8
18	6.9	6.4	6.8	7.1	6.9	6.9	7.1	6.9	6.9	6.7	6.6	6.7
19	6.8	6.7	6.8	6.9	6.9	6.9	7.0	7.0	7.0	6.6	6.6	6.6
20	6.9	6.8	6.8	6.9	6.9	6.9	7.0	7.0	7.0	6.6	6.6	6.6
21	6.8	6.8	6.8	6.9	6.7	6.8	7.0	6.9	7.0	6.6	6.5	6.6
22	7.1	6.8	6.9	6.9	6.8	6.9	7.0	7.0	7.0	6.7	6.5	6.6
23	7.2	7.1	7.2	6.8	6.8	6.8	7.1	7.0	7.0	6.9	6.5	6.7
24	7.3	7.1	7.3	6.8	6.8	6.8	7.0	7.0	7.0	6.8	6.7	6.8
25	7.3	7.2	7.3	6.8	6.8	6.8	7.0	7.0	7.0	7.0	6.7	6.9
26	7.3	7.2	7.2	6.9	6.8	6.9	7.0	6.9	7.0	7.2	7.0	7.1
27	7.2	7.2	7.2	6.9	6.8	6.9	7.0	7.0	7.0	7.0	7.0	7.0
28	7.2	7.1	7.1	6.9	6.8	6.9	7.0	6.9	6.9	7.1	7.0	7.1
29	---	---	---	6.9	6.8	6.9	6.9	6.9	6.9	7.0	7.0	7.0
30	---	---	---	7.0	6.9	6.9	6.9	6.9	6.9	7.0	6.8	6.9
31	---	---	---	7.0	6.9	6.9	---	---	---	6.8	6.8	6.8
MONTH	7.3	6.4	7.0	7.4	6.7	6.9	7.3	6.9	7.0	7.2	6.5	6.8

01177200 CONNECTICUT RIVER AT WEST SPRINGFIELD, MASS.--Continued

PH (UNITS), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974.--Continued

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.9	6.6	6.8	7.0	6.8	6.9	---	---	---	6.8	6.8	6.8
2	6.8	6.7	6.8	7.0	6.9	6.9	---	---	---	6.8	6.7	6.7
3	6.8	6.7	6.7	---	---	---	---	---	---	---	---	---
4	6.7	6.7	6.7	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	6.7	6.6	6.7	---	---	---	---	---	---	---	---	---
8	6.8	6.6	6.7	---	---	---	6.9	6.7	6.8	---	---	---
9	6.6	6.5	6.6	---	---	---	6.9	6.8	6.9	---	---	---
10	6.8	6.5	6.6	---	---	---	7.1	6.7	6.8	6.8	6.7	6.8
11	6.7	6.6	6.7	7.6	7.3	7.4	7.3	6.8	7.0	6.8	6.7	6.7
12	6.7	6.5	6.6	7.5	7.2	7.3	7.2	7.0	7.1	6.9	6.8	6.8
13	6.9	6.5	6.6	7.4	7.1	7.3	7.7	7.2	7.4	7.0	6.9	6.9
14	6.8	6.6	6.7	7.3	7.0	7.1	7.6	7.3	7.5	7.5	6.8	6.9
15	6.8	6.4	6.7	7.2	7.0	7.1	7.6	7.4	7.5	6.8	6.7	6.8
16	6.8	6.5	6.7	7.4	7.0	7.2	---	---	---	6.9	6.7	6.8
17	---	---	---	7.3	7.0	7.1	---	---	---	6.8	6.7	6.7
18	---	---	---	7.2	6.9	7.0	---	---	---	6.8	6.7	6.8
19	---	---	---	7.1	6.9	7.0	---	---	---	6.8	6.7	6.8
20	---	---	---	---	---	---	---	---	---	7.0	6.8	6.9
21	---	---	---	---	---	---	---	---	---	7.0	6.7	6.8
22	---	---	---	---	---	---	7.3	6.9	7.1	7.0	6.7	6.9
23	---	---	---	---	---	---	6.9	6.8	6.8	7.0	6.9	7.0
24	7.1	7.1	7.1	---	---	---	6.9	6.7	6.9	7.1	6.9	7.0
25	7.0	6.9	7.0	---	---	---	7.5	6.7	7.1	7.1	7.0	7.1
26	7.0	6.8	6.9	---	---	---	7.2	6.8	6.9	7.1	7.0	7.1
27	6.8	6.7	6.8	---	---	---	7.2	6.9	7.0	7.1	6.9	7.0
28	7.0	6.8	6.9	---	---	---	7.1	6.9	7.0	7.0	6.9	7.0
29	7.1	6.8	6.9	---	---	---	7.0	6.8	6.9	7.0	6.4	6.9
30	6.9	6.8	6.9	---	---	---	6.9	6.7	6.8	6.8	6.2	6.7
31	---	---	---	---	---	---	6.9	6.8	6.8	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---
YEAR	7.7	6.2	6.9									

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	8.1	6.6	7.1	7.9	7.3	7.6	11.0	10.5	10.8	12.6	12.3	12.5
2	8.7	7.9	8.3	8.9	7.3	8.1	11.7	11.2	11.6	12.6	12.4	12.5
3	8.3	7.2	7.8	9.3	8.8	9.1	11.9	11.5	11.7	12.7	12.4	12.6
4	7.5	7.1	7.4	9.8	9.2	9.6	11.6	10.9	11.3	12.5	12.1	12.3
5	7.0	6.0	6.4	9.9	9.7	9.8	11.7	10.2	11.3	13.0	12.4	12.6
6	6.5	6.1	6.3	10.1	9.6	9.8	11.1	10.8	11.0	13.1	12.7	12.9
7	7.0	6.6	6.8	10.2	9.8	10.0	11.5	11.1	11.3	13.0	12.1	12.6
8	7.3	7.1	7.2	10.1	9.9	10.0	11.5	10.6	11.0	12.9	10.0	12.1
9	7.3	7.0	7.2	10.0	9.6	9.8	11.7	11.3	11.5	13.3	10.1	12.0
10	7.2	6.7	7.0	10.5	9.9	10.1	11.5	11.0	11.2	13.0	10.0	12.4
11	7.1	6.8	6.9	10.7	10.3	10.5	11.4	11.0	11.3	13.1	12.7	12.9
12	7.2	6.6	6.9	10.4	10.1	10.2	11.7	11.3	11.4	13.2	12.9	13.0
13	6.7	6.4	6.6	10.4	10.0	10.2	11.9	11.6	11.7	12.8	12.7	12.8
14	7.1	5.9	6.7	10.0	9.4	9.7	11.6	11.1	11.4	12.8	12.5	12.6
15	7.0	6.4	6.7	9.6	8.9	9.2	11.7	11.2	11.4	12.5	12.2	12.3
16	7.3	7.0	7.2	9.1	8.7	8.8	12.5	11.5	11.8	12.3	12.1	12.2
17	7.5	6.9	7.2	10.6	9.1	9.8	14.2	12.3	13.3	12.2	10.1	11.5
18	7.4	7.0	7.2	11.0	10.5	10.7	14.9	14.0	14.6	12.5	10.9	11.9
19	7.5	7.2	7.4	11.4	10.9	11.2	15.1	14.4	14.8	12.3	11.9	12.1
20	7.8	7.5	7.6	11.7	11.4	11.5	14.3	13.8	14.1	12.2	12.0	12.1
21	7.9	6.6	7.5	11.4	10.8	11.0	13.8	11.7	12.7	12.1	11.4	11.9
22	6.8	5.9	6.5	10.9	10.4	10.7	15.2	13.9	14.6	11.9	11.4	11.7
23	7.8	7.0	7.5	10.7	10.5	10.6	15.3	14.5	14.9	11.9	11.1	11.5
24	8.0	7.5	7.7	10.6	10.4	10.5	---	---	---	11.8	11.3	11.6
25	7.8	7.4	7.6	10.7	10.5	10.7	---	---	---	12.5	11.5	12.1
26	7.8	7.2	7.4	10.6	10.2	10.4	15.0	13.9	14.5	12.8	11.7	12.2
27	7.5	6.9	7.2	10.5	10.4	10.4	14.0	12.7	13.4	12.4	11.4	12.0
28	7.4	7.0	7.2	10.4	10.3	10.4	13.1	12.6	12.8	12.5	11.3	12.0
29	7.8	7.2	7.6	10.3	10.1	10.2	13.2	12.5	12.9	12.5	11.8	12.1
30	8.1	7.7	8.0	10.6	10.1	10.3	12.6	12.3	12.5	13.3	12.5	12.8
31	8.0	7.8	7.9	---	---	---	12.5	12.0	12.3	12.9	12.3	12.7
MONTH	8.7	5.9	7.2	11.7	7.3	10.0	15.3	10.2	12.4	13.3	10.0	12.3

01177200 CONNECTICUT RIVER AT WEST SPRINGFIELD, MASS.--Continued

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974.--Continued

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	13.2	12.8	13.0	12.8	12.5	12.6	12.8	11.4	12.0	10.4	9.9	10.2
2	14.3	12.7	13.5	12.7	12.6	12.6	11.7	10.6	11.4	10.3	9.9	10.1
3	14.3	10.1	12.9	13.0	12.6	12.7	11.8	10.4	11.1	10.5	10.0	10.2
4	14.2	13.9	14.0	12.8	12.5	12.7	10.4	9.4	9.9	10.8	10.6	10.7
5	14.4	10.0	12.9	12.7	12.5	12.6	9.9	9.4	9.6	11.2	10.9	11.0
6	14.1	10.2	12.5	12.7	12.4	12.5	11.6	9.8	10.7	11.1	10.8	11.0
7	13.8	13.0	13.3	12.7	12.4	12.5	12.3	11.6	11.9	11.1	10.6	10.9
8	13.2	12.9	13.0	13.4	12.4	12.7	12.3	11.7	12.0	10.8	10.4	10.6
9	13.1	12.5	12.8	14.6	13.6	14.1	12.2	11.7	12.0	10.5	10.2	10.4
10	13.4	12.6	12.9	14.7	13.1	14.3	12.6	11.9	12.3	10.5	9.9	10.3
11	12.9	12.2	12.6	14.8	13.1	13.9	13.0	11.8	12.4	10.5	10.3	10.4
12	12.5	11.5	12.2	13.8	12.4	13.3	12.4	11.4	12.0	10.7	9.8	10.4
13	12.4	11.6	12.1	13.9	12.8	13.4	11.9	11.5	11.8	10.6	10.2	10.4
14	12.4	11.8	12.1	14.2	12.6	13.5	11.9	11.5	11.8	11.2	10.7	10.9
15	13.3	11.8	12.9	13.6	12.4	12.8	11.8	10.8	11.4	11.0	10.0	10.5
16	14.4	12.5	13.4	12.6	11.3	12.1	11.7	11.2	11.5	10.3	9.6	9.9
17	14.3	13.7	14.0	12.3	11.6	12.1	11.9	11.7	11.8	9.6	9.1	9.4
18	14.7	13.1	13.8	13.2	12.4	12.9	12.1	11.5	11.9	9.1	8.8	9.0
19	14.3	13.2	13.6	13.3	12.5	12.9	11.7	11.4	11.6	8.9	8.6	8.8
20	14.2	13.2	13.6	12.9	12.0	12.5	11.9	11.3	11.6	8.7	8.4	8.6
21	13.8	12.2	12.7	12.9	11.6	12.2	11.8	10.9	11.4	8.5	8.4	8.5
22	12.3	11.8	12.1	13.2	12.6	12.9	11.1	10.6	10.9	8.5	8.2	8.3
23	12.6	12.3	12.4	13.1	12.5	12.8	10.7	10.4	10.6	8.3	8.0	8.1
24	12.9	12.4	12.6	12.5	11.8	12.2	10.7	10.5	10.6	8.1	7.7	8.0
25	13.2	12.8	13.0	12.5	11.8	12.2	11.0	10.8	10.9	9.3	8.1	8.7
26	13.1	12.6	12.7	12.6	12.0	12.3	11.7	11.1	11.4	9.5	9.0	9.3
27	12.9	12.6	12.7	12.6	11.7	12.2	12.1	11.6	11.9	10.0	9.3	9.7
28	12.8	12.6	12.7	12.1	11.3	11.7	12.1	11.3	11.7	11.3	10.3	10.7
29	---	---	---	12.5	11.6	12.1	11.4	10.5	11.0	11.3	10.1	10.7
30	---	---	---	12.8	12.3	12.6	10.6	10.0	10.5	11.1	9.9	10.3
31	---	---	---	12.8	12.2	12.4	---	---	---	10.0	9.5	9.8
MONTH	14.7	10.0	12.9	14.8	11.3	12.7	13.0	9.4	11.4	11.3	7.7	9.9

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	9.5	8.7	9.4	6.5	5.9	6.4	---	---	---	5.9	5.4	5.6
2	9.4	9.2	9.3	7.0	6.8	6.9	---	---	---	5.9	5.5	5.6
3	9.2	8.6	9.0	---	---	---	---	---	---	---	---	---
4	8.6	8.4	8.6	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	8.0	7.8	8.0	---	---	---	---	---	---	---	---	---
8	8.3	8.0	8.1	---	---	---	5.3	5.1	5.2	---	---	---
9	8.6	8.1	8.4	---	---	---	5.6	5.3	5.4	---	---	---
10	9.0	7.8	8.4	---	---	---	5.9	4.8	5.4	7.0	6.7	6.9
11	9.0	8.0	8.6	6.3	5.9	6.2	6.0	4.9	5.6	7.0	6.4	6.7
12	8.6	7.5	8.1	6.5	5.8	6.1	5.7	4.8	5.4	7.0	6.6	6.8
13	7.8	6.7	7.3	6.6	6.0	6.3	6.6	5.8	6.2	7.0	6.7	6.9
14	6.6	5.4	6.0	6.3	5.7	6.0	6.7	5.2	6.3	6.8	6.3	6.6
15	5.9	5.2	5.5	5.6	5.2	5.3	7.0	6.3	6.6	6.8	6.5	6.6
16	5.3	3.5	4.5	5.7	5.0	5.3	---	---	---	7.2	6.7	6.9
17	---	---	---	5.8	5.1	5.5	---	---	---	7.2	6.7	7.0
18	---	---	---	5.6	5.2	5.4	---	---	---	7.3	6.4	7.1
19	---	---	---	5.5	5.2	5.3	---	---	---	7.3	6.6	6.9
20	---	---	---	---	---	---	---	---	---	7.0	6.7	6.8
21	---	---	---	---	---	---	---	---	---	7.0	6.0	6.6
22	---	---	---	---	---	---	6.8	5.7	6.1	7.2	6.5	6.8
23	---	---	---	---	---	---	5.7	4.8	5.1	8.0	7.3	7.7
24	6.6	6.3	6.5	---	---	---	5.9	4.8	5.3	8.3	7.8	8.0
25	6.9	6.6	6.7	---	---	---	8.1	5.6	6.7	8.3	8.0	8.2
26	7.2	6.7	6.9	---	---	---	6.2	4.9	5.4	8.2	7.9	8.0
27	7.2	6.4	6.7	---	---	---	6.1	4.8	5.4	8.0	7.7	7.8
28	7.0	6.4	6.7	---	---	---	5.8	4.3	4.8	7.7	7.2	7.4
29	6.9	5.9	6.4	---	---	---	5.6	4.4	5.1	7.5	7.0	7.2
30	6.5	6.0	6.3	---	---	---	5.1	4.3	4.7	7.9	7.4	7.7
31	---	---	---	---	---	---	5.9	5.1	5.5	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---
YEAR	15.3	3.5	10.0									

CONNECTICUT RIVER BASIN

01177200 CONNECTICUT RIVER AT WEST SPRINGFIELD, MASS.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVFMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	18.0	17.0	17.5	12.5	12.0	12.0	5.0	4.5	5.0	1.5	1.0	1.5
2	17.5	17.0	17.5	12.0	11.0	11.5	4.5	4.0	4.5	1.5	1.0	1.0
3	18.0	17.5	17.5	11.0	10.0	10.5	4.5	3.5	4.0	1.0	1.0	1.0
4	18.5	17.5	18.0	10.0	9.0	9.5	4.5	4.0	4.5	1.5	1.0	1.0
5	18.5	17.5	18.5	9.0	8.5	8.5	6.5	4.0	4.5	1.0	0.5	0.5
6	18.0	17.0	17.5	8.5	7.5	8.0	6.0	5.5	5.5	0.5	0.0	0.5
7	17.0	16.5	17.0	7.5	7.5	7.5	5.5	5.0	5.0	1.0	0.0	0.5
8	16.5	16.0	16.5	7.5	7.0	7.5	5.0	4.0	4.5	3.5	0.0	1.0
9	16.5	15.5	16.0	7.0	6.5	7.0	4.0	3.5	4.0	3.5	0.0	1.0
10	16.5	16.0	16.0	6.5	5.5	6.0	4.5	4.0	4.5	3.5	0.0	0.5
11	16.0	15.5	15.5	6.0	5.5	5.5	4.0	3.5	4.0	0.5	0.0	0.0
12	16.5	15.0	16.0	5.5	5.5	5.5	4.0	3.0	3.5	0.5	0.0	0.5
13	16.0	15.5	16.0	6.0	5.5	5.5	3.0	3.0	3.0	0.5	0.0	0.5
14	16.5	15.5	16.0	7.0	6.0	6.5	3.5	3.0	3.5	0.5	0.0	0.5
15	16.0	15.0	15.5	7.5	7.0	7.0	3.5	3.0	3.5	0.5	0.0	0.5
16	15.5	14.5	15.0	7.5	7.0	7.5	3.0	2.0	2.5	0.5	0.5	0.5
17	14.5	14.0	14.0	7.0	5.5	6.0	2.0	0.5	1.0	2.5	0.5	1.0
18	13.5	13.0	13.5	5.5	5.0	5.5	0.5	0.5	0.5	1.5	0.5	0.5
19	13.5	13.0	13.0	5.5	5.0	5.5	0.5	0.5	0.5	0.5	0.0	0.5
20	13.0	12.5	13.0	5.0	4.5	5.0	0.5	0.5	0.5	0.5	0.0	0.5
21	14.0	12.5	13.0	5.0	4.5	5.0	1.5	0.5	1.0	0.5	0.0	0.5
22	13.5	12.5	13.0	6.0	5.0	5.5	1.0	0.5	0.5	0.5	0.5	0.5
23	13.5	12.5	13.0	5.5	5.0	5.0	1.0	0.5	0.5	1.0	0.0	0.5
24	14.0	13.0	13.5	5.5	5.0	5.0	---	---	---	1.0	0.0	0.5
25	13.5	13.5	13.5	5.5	5.0	5.5	---	---	---	1.0	0.0	0.5
26	13.5	13.0	13.5	5.5	5.0	5.5	1.0	0.5	0.5	1.0	0.0	0.5
27	13.5	13.0	13.5	5.5	5.5	5.5	1.5	1.0	1.0	1.5	0.5	1.0
28	13.0	12.0	12.5	5.5	5.5	5.5	2.0	1.0	1.5	2.0	0.5	1.0
29	12.0	11.5	12.0	5.5	5.5	5.5	1.5	1.0	1.5	2.5	1.5	2.0
30	12.0	11.5	12.0	6.0	5.5	5.5	1.5	1.5	1.5	2.0	1.0	1.5
31	12.5	11.5	12.0	---	---	---	1.5	1.5	1.5	2.0	1.5	2.0
MONTH	18.5	11.5	15.0	12.5	4.5	6.5	6.5	0.5	2.5	3.5	0.0	1.0

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	2.0	1.0	1.5	2.0	2.0	2.0	4.0	2.5	3.0	11.0	9.5	10.5
2	2.0	0.0	0.5	2.0	2.0	2.0	4.5	4.0	4.5	11.5	10.5	11.0
3	5.0	0.0	1.0	2.0	2.0	2.0	6.0	4.0	5.0	11.5	10.0	10.5
4	0.0	0.0	0.0	2.5	2.0	2.0	7.5	6.0	6.5	10.0	9.5	9.5
5	5.0	0.0	1.5	2.5	2.0	2.0	7.5	7.0	7.5	9.5	8.5	9.0
6	8.5	0.0	2.0	2.5	2.0	2.5	7.0	5.0	6.0	9.0	8.5	9.0
7	0.5	0.0	0.5	2.5	2.0	2.0	5.0	4.0	4.5	9.5	8.5	9.0
8	0.5	0.0	0.5	2.5	2.0	2.0	4.5	4.0	4.5	10.0	8.5	9.0
9	1.0	0.5	0.5	2.0	1.5	1.5	4.5	3.5	4.0	10.0	9.5	10.0
10	1.0	0.5	0.5	2.0	1.0	1.5	4.0	3.5	3.5	10.0	9.5	9.5
11	1.0	0.0	0.5	2.0	1.0	1.5	4.5	3.0	3.5	10.5	9.5	10.0
12	1.5	0.5	1.0	2.5	1.5	2.0	4.5	3.5	4.0	11.0	10.0	10.5
13	1.5	0.5	1.0	2.0	1.0	1.5	4.5	4.0	4.5	10.5	10.0	10.0
14	1.0	0.5	1.0	2.0	1.0	1.5	5.0	4.5	4.5	10.5	9.0	10.0
15	1.0	0.0	0.5	3.0	1.5	2.5	6.0	5.0	5.5	12.5	10.0	11.0
16	1.0	1.0	1.0	3.5	2.5	3.0	6.5	5.5	6.0	13.5	12.0	13.0
17	1.0	1.0	1.0	3.5	2.5	3.0	6.5	6.0	6.5	14.5	13.5	14.0
18	1.0	1.0	1.0	2.5	2.0	2.0	8.0	6.0	7.0	15.5	14.5	15.0
19	1.0	1.0	1.0	3.0	2.0	2.5	7.5	6.5	7.0	16.0	15.0	15.5
20	1.0	1.0	1.0	3.0	2.0	2.5	7.5	6.5	7.0	16.5	15.5	16.0
21	1.5	1.0	1.0	3.0	2.0	3.0	8.5	6.5	7.5	16.0	15.0	15.5
22	1.5	0.5	1.0	2.5	1.5	2.0	9.0	7.5	8.0	16.5	15.0	16.0
23	1.5	0.0	1.0	3.0	2.0	2.5	9.0	8.5	8.5	16.0	15.0	15.5
24	1.5	1.5	1.5	3.5	2.5	3.0	8.5	8.5	8.5	15.0	14.5	15.0
25	1.5	1.5	1.5	3.5	2.5	3.0	9.0	8.0	8.5	14.5	14.0	14.5
26	1.5	1.5	1.5	3.0	2.5	3.0	8.5	7.5	7.5	14.0	13.5	13.5
27	2.0	1.5	2.0	3.5	2.5	3.0	8.0	7.0	7.5	13.5	12.0	12.5
28	2.0	2.0	2.0	4.0	3.0	3.5	8.5	7.0	7.5	12.0	11.5	12.0
29	---	---	---	3.0	2.0	2.5	9.5	8.0	9.0	12.0	11.5	12.0
30	---	---	---	2.5	2.0	2.0	10.0	9.5	9.5	13.0	11.5	12.5
31	---	---	---	2.5	2.0	2.5	---	---	---	13.5	12.5	13.0
MONTH	8.5	0.0	1.0	4.0	1.0	2.5	10.0	2.5	6.0	16.5	8.5	12.0

01177200 CONNECTICUT RIVER AT WEST SPRINGFIELD, MASS.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974.--Continued

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	14.0	13.5	13.5	22.5	21.0	22.0	---	---	---	23.5	22.0	23.0
2	14.5	13.5	14.0	22.0	21.5	22.0	---	---	---	23.5	21.5	22.5
3	16.0	14.0	15.0	---	---	---	---	---	---	---	---	---
4	16.5	15.5	15.5	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	19.0	18.5	18.5	---	---	---	---	---	---	---	---	---
8	19.0	18.0	18.5	---	---	---	25.0	25.0	25.0	---	---	---
9	21.0	19.0	20.0	---	---	---	25.0	24.0	24.5	---	---	---
10	23.0	21.0	22.0	---	---	---	25.5	23.5	24.5	21.0	21.0	21.0
11	24.0	22.5	23.0	25.0	24.0	24.5	26.5	23.5	25.0	21.5	20.5	21.0
12	23.0	21.0	22.0	24.5	23.5	24.0	25.5	24.0	25.0	22.0	21.0	21.5
13	22.0	20.5	21.0	24.5	23.5	24.0	26.5	24.5	25.5	23.0	21.5	22.5
14	22.0	20.5	21.5	25.5	24.0	25.0	27.0	25.5	26.0	23.0	22.0	22.5
15	22.5	21.0	22.0	26.0	25.0	25.5	26.0	25.5	25.5	22.0	21.5	21.5
16	22.0	21.5	22.0	26.5	25.5	26.0	---	---	---	21.5	21.0	21.0
17	---	---	---	26.0	24.5	25.5	---	---	---	21.0	20.5	20.5
18	---	---	---	25.5	24.5	25.0	---	---	---	20.5	20.0	20.5
19	---	---	---	25.5	24.5	25.0	---	---	---	20.5	20.0	20.5
20	---	---	---	---	---	---	---	---	---	21.0	20.0	20.5
21	---	---	---	---	---	---	---	---	---	21.0	20.0	20.5
22	---	---	---	---	---	---	26.5	26.0	26.5	20.0	19.5	20.0
23	---	---	---	---	---	---	26.0	25.5	26.0	20.0	18.5	19.0
24	22.0	21.5	22.0	---	---	---	26.5	25.0	26.0	18.0	17.5	17.5
25	21.5	20.0	20.5	---	---	---	27.5	25.5	26.0	17.0	16.5	17.0
26	20.0	19.5	20.0	---	---	---	25.5	24.5	25.0	17.0	16.5	16.5
27	19.5	19.0	19.0	---	---	---	25.0	24.0	24.5	17.5	16.0	17.0
28	20.5	19.0	20.0	---	---	---	25.5	24.5	25.0	18.0	17.0	17.5
29	20.5	19.5	20.0	---	---	---	25.0	23.5	24.0	18.5	18.0	18.5
30	21.5	20.5	21.0	---	---	---	23.5	22.5	23.0	18.0	17.0	17.5
31	---	---	---	---	---	---	23.0	22.5	22.5	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---
YEAR	27.5	0.0	9.5									

01180800 WALKER BROOK NEAR BECKET CENTER, MASS.

LOCATION.--Lat 42°15'49", long 73°02'48", Berkshire County, two-parameter monitor at gaging station on right bank 20 ft (6 m) upstream from culvert on U.S. Highway 20, 0.2 mi (0.3 km) east of Bonny Rigg Corners, 1.7 mi (2.7 km) southeast of Becket Center, and 3.5 mi (5.6 km) west of Chester.

DRAINAGE AREA.--3.01 mi² (7.80 km²).

PERIOD OF RECORD.--Chemical analyses: October 1971 to current year.
Water temperatures: December 1971 to current year.

EXTREMES.--Current year:
Specific conductance: Maximum, 323 micromhos Feb. 19; minimum, 58 micromhos Oct. 29.
Water temperatures: Maximum, 26.5°C Aug. 14; minimum, freezing point on many days during winter period.

Period of record:
Specific conductance: Maximum, 510 micromhos Feb. 13, 1972; minimum, 50 micromhos Aug. 2, 1973.
Water temperatures: Maximum, 26.5°C Aug. 14, 1974; minimum, freezing point on many days during winter periods.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C) , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	202	166	185	82	69	76	119	113	116	216	122	149
2	189	172	184	76	70	72	123	119	121	146	126	134
3	174	156	166	79	70	72	124	119	122	137	130	134
4	174	154	166	91	78	82	125	121	123	180	120	138
5	208	165	179	125	93	117	128	93	117	131	115	125
6	225	162	188	144	121	129	94	91	93	127	118	122
7	236	168	195	137	125	128	100	93	95	126	120	123
8	227	169	193	131	122	128	109	102	106	140	126	133
9	216	169	188	126	117	123	180	80	110	137	126	132
10	206	175	189	129	120	126	88	82	85	136	128	131
11	216	171	195	134	125	128	88	86	87	198	129	151
12	160	128	138	135	126	131	100	89	93	133	127	129
13	153	144	148	143	130	137	110	97	103	134	128	131
14	173	151	164	155	126	137	201	91	111	135	129	132
15	177	168	172	139	132	136	95	93	93	134	128	131
16	197	173	189	147	136	141	106	97	102	143	129	134
17	194	186	191	137	128	133	177	109	121	140	130	134
18	205	187	196	134	131	133	120	114	117	141	132	136
19	191	161	175	134	127	130	124	120	122	232	135	175
20	242	157	191	131	124	127	234	121	133	142	131	136
21	234	183	206	135	124	129	194	68	92	264	133	156
22	194	181	187	151	136	142	88	84	86	169	118	137
23	199	189	194	138	133	136	86	82	83	164	118	127
24	200	179	191	194	133	151	88	83	85	131	118	122
25	203	194	198	154	121	132	96	90	92	127	120	123
26	200	182	191	125	121	123	188	103	121	130	126	128
27	210	186	200	128	125	127	103	90	93	141	102	123
28	203	179	189	125	103	112	104	91	94	116	99	103
29	193	58	139	108	103	105	97	95	96	108	97	99
30	95	80	84	112	108	111	104	99	102	104	99	100
31	83	69	75	---	---	---	179	106	121	110	102	105
MONTH	242	58	176	194	69	122	234	68	104	264	97	130

01180800 WALKER BROOK NEAR BECKET CENTER, MASS.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974.--Continued

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	112	101	106	253	131	145	176	157	166	148	91	100
2	120	106	113	133	124	128	173	140	159	103	94	99
3	117	113	115	144	129	133	146	100	126	110	102	105
4	135	114	118	136	111	128	105	89	98	---	---	107
5	124	119	122	109	94	100	108	96	103	---	---	104
6	126	118	121	98	92	95	107	96	101	---	---	104
7	136	118	122	104	96	100	104	96	100	---	---	104
8	123	118	121	106	98	99	153	102	109	---	---	104
9	129	119	124	145	109	115	149	104	112	---	---	105
10	127	122	125	209	114	123	166	111	120	---	---	105
11	126	123	126	149	107	122	222	116	157	---	---	105
12	152	124	129	139	114	121	132	104	121	---	---	104
13	165	124	134	157	113	136	113	100	102	---	---	82
14	134	127	129	149	116	131	113	101	103	---	---	106
15	134	126	130	178	113	144	90	78	83	---	---	103
16	142	128	134	261	98	168	97	90	94	---	---	106
17	135	130	133	116	87	98	102	96	99	---	---	106
18	134	130	132	145	86	96	106	101	103	---	---	103
19	323	133	153	177	80	89	109	105	107	---	---	105
20	224	126	156	171	76	86	109	103	106	---	---	104
21	129	124	126	178	80	121	112	108	110	---	---	105
22	320	115	160	179	101	116	114	111	113	---	---	105
23	112	92	99	164	101	124	116	114	114	115	107	110
24	98	91	94	118	81	98	116	113	115	115	104	106
25	169	99	126	103	83	90	116	113	115	103	96	100
26	162	116	136	109	84	97	119	114	116	107	100	104
27	153	117	134	107	86	98	125	117	120	110	107	108
28	142	126	134	107	84	98	123	118	121	114	109	111
29	---	---	---	156	102	135	126	122	124	119	114	117
30	---	---	---	201	153	163	141	121	125	118	116	117
31	---	---	---	217	170	182	---	---	---	119	114	117
MONTH	323	91	127	261	76	119	222	78	115	---	---	105

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	125	96	108	143	132	136	249	238	243	148	125	134
2	156	97	105	155	143	146	255	251	253	149	137	141
3	118	111	114	156	103	124	260	253	257	139	74	121
4	128	111	117	123	105	113	257	140	228	81	71	74
5	130	120	125	130	104	121	158	143	150	100	80	91
6	131	127	129	108	99	103	175	160	166	118	103	110
7	140	131	135	131	108	118	199	176	188	122	95	104
8	142	139	140	145	131	136	231	200	211	114	100	106
9	154	141	148	161	145	150	236	217	226	132	116	124
10	166	154	161	172	157	162	250	223	232	147	135	140
11	171	166	168	195	172	177	256	238	247	166	150	155
12	176	171	173	211	198	201	266	242	252	180	169	173
13	167	157	162	212	204	208	271	242	255	184	117	174
14	172	165	170	217	203	208	270	233	248	119	110	114
15	177	172	174	196	123	136	269	252	258	138	122	130
16	183	130	165	167	148	157	271	247	258	155	142	148
17	124	93	102	183	167	174	274	124	232	174	158	165
18	117	100	109	189	184	186	201	128	175	184	178	180
19	130	114	120	195	166	186	220	196	203	185	182	183
20	136	128	132	177	167	172	241	214	222	187	155	182
21	138	111	128	203	178	193	251	232	240	153	127	143
22	115	109	111	223	205	212	264	242	251	134	126	130
23	128	116	122	231	224	227	262	164	212	144	134	139
24	142	128	134	233	220	227	166	145	155	154	145	149
25	144	113	139	223	188	202	179	164	169	159	154	157
26	114	110	112	206	202	203	205	180	193	159	157	158
27	114	111	112	211	198	204	218	205	209	167	158	162
28	123	113	116	205	193	202	214	139	159	169	145	165
29	126	120	122	211	194	203	163	153	158	139	117	122
30	141	126	132	220	214	218	118	102	111	130	118	123
31	---	---	---	236	222	228	125	112	118	---	---	---
MONTH	183	93	133	236	99	175	274	102	209	187	71	140
YEAR	323	58	138									

NOTE.--The figures on those days showing only mean specific conductance are based on the relationship between discharge and specific conductance.

01180800 WALKER BROOK NEAR BECKET CENTER, MASS.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	12.5	9.5	11.0	9.0	7.5	8.5	3.5	1.0	2.5	1.5	0.0	1.0
2	12.0	10.0	10.5	8.5	7.0	7.5	1.0	0.0	0.5	0.5	0.0	0.0
3	14.0	12.0	13.0	8.0	6.0	7.5	1.5	0.0	0.5	0.5	0.0	0.0
4	15.5	12.5	14.0	6.0	4.0	5.5	4.5	1.0	2.5	0.5	0.0	0.0
5	15.0	12.5	14.0	5.0	3.5	4.0	8.0	3.5	5.5	0.0	0.0	0.0
6	14.5	11.0	12.5	3.5	2.0	2.5	8.0	4.5	6.5	0.0	0.0	0.0
7	12.5	10.5	11.5	4.0	2.0	3.0	4.5	2.5	3.5	0.0	0.0	0.0
8	12.0	9.5	10.5	4.0	2.0	3.0	2.5	1.5	2.0	0.0	0.0	0.0
9	12.5	9.0	11.0	3.0	1.5	2.5	3.5	1.0	2.0	0.0	0.0	0.0
10	12.5	10.0	11.0	2.0	0.5	1.0	4.0	2.5	3.5	0.0	0.0	0.0
11	12.0	9.5	11.0	2.0	0.5	1.0	3.0	2.0	2.5	0.0	0.0	0.0
12	12.0	8.0	10.0	3.0	1.0	2.0	2.0	0.5	1.5	0.0	0.0	0.0
13	12.5	9.5	11.0	4.5	2.5	3.5	1.5	0.0	0.5	0.0	0.0	0.0
14	13.0	11.0	12.0	7.5	4.5	6.0	3.5	1.5	2.5	0.0	0.0	0.0
15	12.5	10.0	11.0	8.5	5.0	6.5	2.0	0.0	1.0	0.0	0.0	0.0
16	10.0	8.5	9.5	8.5	5.0	7.5	1.0	0.0	0.5	0.0	0.0	0.0
17	8.5	7.5	8.0	4.5	2.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0
18	8.0	7.5	7.5	4.0	2.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0
19	8.5	6.5	7.5	5.0	3.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0
20	8.0	7.0	7.5	3.0	1.5	2.5	0.0	0.0	0.0	0.0	0.0	0.0
21	9.5	6.5	8.0	2.5	1.0	1.5	0.5	0.0	0.0	0.0	0.0	0.0
22	9.0	5.5	7.5	5.5	2.5	4.0	0.0	0.0	0.0	0.0	0.0	0.0
23	9.5	6.0	8.0	5.5	3.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0
24	10.0	6.5	8.5	5.0	3.0	4.0	0.0	0.0	0.0	0.5	0.0	0.0
25	9.5	7.5	8.5	6.5	5.0	6.0	0.0	0.0	0.0	1.0	0.0	0.5
26	10.5	9.0	10.0	6.0	4.0	4.5	1.0	0.0	0.5	1.5	0.0	0.5
27	9.5	7.5	9.0	4.5	4.0	4.5	2.0	0.5	1.5	1.0	0.5	1.0
28	7.0	6.0	6.5	6.0	5.0	5.5	2.5	1.0	2.0	2.0	0.5	1.0
29	8.0	5.5	7.0	6.0	4.0	5.0	2.5	1.0	1.5	2.0	1.0	1.5
30	9.5	8.0	8.5	4.0	3.0	3.5	2.5	0.5	1.5	2.5	1.0	1.5
31	9.5	8.0	8.5	---	---	---	0.5	0.0	0.5	3.0	1.0	2.0
MONTH	15.5	5.5	10.0	9.0	0.5	4.0	8.0	0.0	1.5	3.0	0.0	0.0

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1.0	0.0	0.0	1.5	0.0	0.5	2.5	0.0	1.0	14.0	9.0	11.5
2	0.0	0.0	0.0	0.5	0.0	0.0	2.0	1.0	1.5	12.0	6.5	9.0
3	0.0	0.0	0.0	1.0	0.5	0.5	5.5	1.0	2.5	8.0	7.0	7.5
4	0.0	0.0	0.0	3.0	1.0	2.0	6.0	2.0	4.0	---	---	---
5	0.0	0.0	0.0	3.5	2.0	3.0	6.0	4.0	5.0	---	---	---
6	0.0	0.0	0.0	4.0	0.5	2.5	4.5	2.0	3.5	---	---	---
7	0.0	0.0	0.0	6.5	2.5	4.5	7.0	0.0	3.5	---	---	---
8	0.0	0.0	0.0	4.0	1.0	2.5	5.0	2.5	4.0	---	---	---
9	0.0	0.0	0.0	1.0	1.0	1.0	2.0	0.0	0.5	---	---	---
10	0.0	0.0	0.0	2.5	0.0	1.5	2.0	0.0	1.0	---	---	---
11	0.0	0.0	0.0	1.5	0.0	0.5	5.5	0.0	2.5	---	---	---
12	0.0	0.0	0.0	2.0	0.0	0.5	6.5	2.5	4.5	---	---	---
13	0.5	0.0	0.0	0.5	0.0	0.0	4.5	4.0	4.5	---	---	---
14	0.5	0.0	0.0	1.0	0.0	0.5	10.5	4.0	7.0	---	---	---
15	0.5	0.0	0.0	1.0	0.0	0.5	10.0	6.5	7.5	---	---	---
16	0.0	0.0	0.0	0.5	0.0	0.5	9.5	5.5	7.0	---	---	---
17	0.5	0.0	0.0	1.5	0.0	0.5	10.5	4.5	7.5	---	---	---
18	0.0	0.0	0.0	0.5	0.0	0.0	11.5	5.5	8.5	---	---	---
19	0.0	0.0	0.0	1.0	0.0	0.0	9.5	6.0	8.0	---	---	---
20	0.0	0.0	0.0	2.5	0.0	0.5	10.0	3.5	6.5	---	---	---
21	0.5	0.0	0.0	0.0	0.0	0.0	12.5	5.0	8.5	---	---	---
22	0.0	0.0	0.0	1.0	0.0	0.5	13.0	9.0	11.0	---	---	---
23	0.0	0.0	0.0	3.0	0.0	1.0	12.0	9.0	10.5	12.5	11.5	12.0
24	0.0	0.0	0.0	2.0	0.0	1.0	8.5	6.5	7.5	14.5	11.5	12.5
25	0.0	0.0	0.0	1.0	0.0	0.5	11.0	5.0	7.5	12.0	10.0	11.0
26	0.0	0.0	0.0	1.0	0.0	0.5	11.5	5.5	8.0	12.0	9.0	10.0
27	0.5	0.0	0.0	2.5	0.0	1.0	12.5	5.0	8.5	10.0	9.0	9.5
28	1.5	0.0	0.5	3.0	0.0	1.0	14.5	7.0	10.5	12.5	8.0	10.0
29	---	---	---	0.5	0.0	0.0	16.5	10.0	13.5	11.0	9.5	10.0
30	---	---	---	0.5	0.0	0.0	13.5	11.5	12.5	13.5	10.5	11.5
31	---	---	---	0.5	0.0	0.5	---	---	---	14.0	10.5	12.5
MONTH	1.5	0.0	0.0	6.5	0.0	1.0	16.5	0.0	6.5	---	---	---

CONNECTICUT RIVER BASIN

01180800 WALKER BROOK NEAR BECKET CENTER, MASS.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974.--Continued

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	14.0	12.0	13.0	20.0	15.0	17.0	25.5	17.0	21.0	20.5	16.5	18.0
2	13.5	11.5	12.5	21.5	14.5	17.5	25.5	17.5	21.5	17.0	15.0	15.5
3	14.5	8.5	12.0	18.5	16.5	17.5	25.0	20.5	22.5	15.0	14.0	14.5
4	16.5	10.0	13.0	22.5	17.5	20.0	25.5	19.5	22.5	15.5	14.0	14.5
5	18.0	12.5	15.0	22.0	18.0	19.5	22.0	19.0	20.0	15.5	12.0	14.0
6	18.0	13.0	15.5	20.5	17.0	19.5	22.0	17.5	19.5	15.0	13.0	14.0
7	17.0	11.5	13.5	22.0	16.5	19.0	21.0	17.0	18.5	14.5	13.5	14.0
8	18.5	12.0	15.0	23.5	17.5	20.0	24.5	16.0	20.0	17.0	13.0	15.0
9	21.5	14.0	17.5	25.0	18.0	21.0	21.5	18.0	19.5	18.0	15.0	16.0
10	23.5	16.0	19.0	25.5	18.5	21.0	24.0	17.0	20.0	19.0	14.5	16.5
11	22.5	15.0	18.5	21.5	15.5	18.0	25.0	15.0	19.0	19.5	14.5	17.0
12	17.5	12.5	14.5	23.5	15.0	18.5	26.0	15.0	20.0	21.5	16.5	18.5
13	18.5	10.5	14.0	24.5	14.5	19.0	24.5	16.0	20.0	22.5	18.0	19.5
14	18.0	11.0	14.5	25.5	17.0	20.5	26.5	18.0	21.5	18.0	14.5	16.0
15	19.5	11.5	15.0	23.5	18.0	20.5	25.5	16.0	20.5	16.0	13.0	14.5
16	16.0	14.0	15.0	22.0	17.5	19.5	25.5	15.5	20.0	16.5	12.5	14.0
17	17.5	15.0	16.5	23.5	15.5	19.0	22.0	17.5	19.0	15.5	11.5	13.5
18	19.0	15.0	16.5	23.0	17.0	19.5	22.5	17.5	19.0	16.5	13.0	14.5
19	18.5	13.5	16.0	24.5	18.5	21.0	24.5	16.0	21.5	16.5	13.5	15.0
20	19.0	15.0	17.0	23.5	16.5	19.5	25.0	17.0	20.5	18.0	15.0	16.0
21	16.5	14.5	15.5	21.5	14.5	18.0	25.0	17.0	21.0	15.5	14.5	15.0
22	19.0	15.0	16.5	23.0	14.0	18.5	24.5	16.5	20.5	14.5	12.5	13.5
23	16.0	14.0	15.0	23.0	17.0	19.5	20.0	18.5	19.0	12.0	9.0	11.0
24	17.5	13.0	15.0	18.5	17.0	17.5	21.5	17.0	19.0	11.0	7.5	9.0
25	15.0	13.0	14.0	19.5	16.5	17.5	21.5	16.0	18.0	9.5	7.0	8.5
26	14.0	13.0	13.5	20.5	15.0	17.5	19.0	15.0	17.0	12.0	9.0	10.0
27	14.0	13.0	13.5	20.5	17.0	18.5	22.0	17.0	19.0	14.0	9.0	11.5
28	16.5	13.0	14.5	24.0	18.0	20.0	19.0	17.5	18.5	13.0	11.0	12.0
29	16.5	13.5	14.5	23.5	18.5	20.5	17.5	16.5	17.0	14.5	13.0	14.0
30	19.0	13.5	16.0	24.5	19.0	21.0	16.5	15.5	16.0	13.5	10.0	11.5
31	---	---	---	24.5	17.5	21.0	18.0	14.0	16.5	---	---	---
MONTH	23.5	8.5	15.0	25.5	14.0	19.5	26.5	14.0	19.5	22.5	7.0	14.0
YEAR	26.5	0.0	8.5									

01183600 WESTFIELD RIVER AT WEST SPRINGFIELD, MASS.

LOCATION.--Lat 42°05'59", long 72°38'28", Hampden County, multiple-parameter monitor on left bank at canal, 0.3 mi (0.5 km) downstream from dam, 0.6 mi (1.0 km) downstream from Block Brook, 1.0 mi (1.6 km) west of West Springfield, and 3.5 mi (5.6 km) upstream from mouth.

DRAINAGE AREA.--513 mi^2 (1,329 km^2).

PERIOD OF RECORD.--Chemical analyses: June 1972 to current year.
Water temperatures: June 1972 to current year.

EXTREMES.--Current year:
Specific conductance: Maximum, 666 micromhos/cm Jan. 21; minimum, 41 micromhos/cm July 6, 7.
pH: Maximum, 9.0 Aug. 22; minimum, 6.1 June 4, 5.
Dissolved oxygen: Maximum recorded, 15.1 mg/l Mar. 19; minimum, 4.9 mg/l May 18.
Water temperatures: Maximum, 28.0°C Aug. 2; minimum, freezing point on many days during winter period.

Period of record:
Specific conductance: Maximum, 666 micromhos/cm Jan. 21, 1974; minimum, 23 micromhos/cm Mar. 17, 18, 1973.
pH: Maximum, 9.0 Aug. 22, 1974; minimum, 6.1 June 4, 5, 1974.
Dissolved oxygen: Maximum, 18.6 mg/l Feb. 10, 1973; minimum, 4.2 mg/l Sept. 9, 29, 1972.
Water temperatures: Maximum, 29.0°C Sept. 4, 1973; minimum, freezing point on many days during winter periods.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C) • WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	177	161	170	91	74	81	93	85	89	112	70	89
2	175	159	169	83	72	77	95	91	93	104	91	98
3	158	152	154	93	84	89	106	96	101	106	89	98
4	169	154	162	102	93	97	111	105	107	145	87	112
5	170	154	163	104	100	102	117	108	112	120	94	98
6	176	160	170	108	97	102	124	72	95	110	93	99
7	178	161	167	114	101	110	74	68	70	106	92	101
8	179	163	169	120	113	117	87	75	80	110	95	102
9	176	160	168	120	116	118	101	83	89	108	93	102
10	170	161	163	130	118	121	97	57	68	112	99	105
11	185	158	171	141	129	135	66	56	60	208	99	146
12	184	160	168	143	136	139	74	66	70	182	131	152
13	170	162	166	142	129	135	83	74	77	127	112	118
14	170	162	166	145	136	141	98	83	91	120	110	117
15	174	160	166	141	132	135	91	71	75	119	96	107
16	169	158	163	132	128	130	89	69	74	139	115	120
17	165	158	162	144	130	136	164	76	112	143	115	128
18	169	159	163	145	132	141	127	98	105	124	114	120
19	169	163	166	138	133	135	116	102	109	639	119	261
20	170	158	163	135	129	132	121	109	115	380	158	227
21	176	167	170	137	132	135	203	54	112	666	128	199
22	178	167	171	149	131	140	73	57	67	325	172	223
23	166	155	161	148	130	141	73	70	72	160	117	133
24	161	155	158	133	120	126	70	66	68	122	99	111
25	170	160	163	131	120	124	68	62	64	104	93	100
26	174	164	170	133	102	118	90	61	70	119	91	107
27	174	162	168	102	98	99	87	73	77	144	101	126
28	171	162	167	113	100	105	82	66	74	97	79	85
29	175	167	170	102	74	84	64	61	62	91	75	82
30	167	83	126	85	74	78	63	58	61	77	72	75
31	82	75	78	---	---	---	78	60	66	86	74	78
MONTH	185	75	162	149	72	117	203	54	83	666	70	123

01183600 WESTFIELD RIVER AT WEST SPRINGFIELD, MASS.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974.--Continued

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	87	77	82	120	100	110	103	96	99	130	80	104
2	97	80	85	103	99	101	100	94	98	89	76	81
3	442	93	114	111	104	109	96	81	91	106	89	95
4	108	86	99	117	104	109	81	66	74	101	86	94
5	104	85	93	107	85	97	73	64	67	95	85	90
6	114	93	105	84	67	74	69	64	66	97	88	92
7	134	102	112	81	65	70	80	66	73	102	92	98
8	132	110	116	84	78	81	83	68	76	95	89	93
9	129	111	117	87	77	79	84	68	73	100	87	95
10	119	108	112	103	87	92	85	69	74	105	81	92
11	114	108	111	102	89	94	75	71	73	82	68	72
12	116	102	108	101	95	98	78	72	75	93	69	77
13	154	112	122	112	99	104	88	80	85	86	51	62
14	147	116	127	116	105	110	91	86	88	64	51	58
15	119	113	116	118	112	114	97	91	95	74	64	69
16	125	112	116	133	114	119	112	97	103	89	71	80
17	129	112	121	126	77	95	110	106	108	95	84	89
18	130	114	122	84	75	79	---	---	---	98	83	91
19	192	112	126	89	78	83	87	80	84	104	95	99
20	177	142	157	79	73	75	92	83	88	107	101	104
21	136	117	124	138	77	93	100	88	94	113	104	107
22	147	118	126	96	72	82	99	90	95	115	106	111
23	148	78	97	78	72	75	100	89	95	113	97	105
24	87	73	79	83	74	78	98	83	91	104	86	94
25	91	87	88	81	71	74	103	88	94	94	75	87
26	98	92	94	83	77	80	104	92	96	87	77	81
27	105	96	99	86	81	83	109	94	98	96	89	92
28	113	102	106	92	85	88	117	104	112	92	84	88
29	---	---	---	97	88	94	124	98	109	93	87	90
30	---	---	---	183	95	121	120	103	108	97	92	94
31	---	---	---	142	100	124	---	---	---	100	93	97
MONTH	442	73	110	183	65	93	124	64	89	130	51	90

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	115	103	109	117	101	105	154	143	146	100	96	97
2	102	83	89	118	109	113	159	145	153	105	99	102
3	96	83	88	127	113	121	180	154	166	117	97	108
4	94	85	89	128	79	104	172	159	165	97	62	81
5	99	94	97	85	70	82	192	161	173	80	61	68
6	112	102	107	91	41	62	180	131	148	95	81	86
7	114	105	107	65	41	50	137	122	127	115	96	107
8	120	109	112	74	56	65	136	112	122	116	99	109
9	129	116	123	88	59	74	127	110	115	103	100	101
10	146	118	130	95	82	87	139	121	128	110	103	107
11	134	90	110	112	97	104	144	128	135	124	110	118
12	135	115	129	119	111	114	144	130	138	135	109	125
13	323	126	158	129	117	120	148	133	140	125	82	103
14	144	132	137	129	121	124	151	141	145	128	87	104
15	145	140	142	132	124	129	159	141	151	117	99	104
16	145	135	140	130	99	114	157	142	147	105	99	103
17	148	109	133	109	100	105	154	146	152	116	91	100
18	106	77	84	122	110	119	173	153	164	117	90	105
19	86	78	81	133	119	123	195	173	186	126	96	110
20	107	85	97	142	128	136	195	173	189	126	94	107
21	117	102	108	145	139	141	171	151	157	131	106	122
22	115	111	113	145	138	141	181	151	167	130	106	115
23	120	111	116	163	145	154	190	175	183	105	96	99
24	117	112	114	161	141	149	181	169	174	103	97	100
25	117	111	114	165	148	157	173	162	167	114	101	105
26	132	114	124	171	157	164	162	153	156	115	102	109
27	131	107	120	169	154	160	170	158	166	124	106	114
28	109	94	100	165	156	161	170	164	167	127	108	114
29	101	97	98	171	154	16[illegible]	179	161	169	110	83	95
30	116	102	111	164	142	155	174	147	165	83	77	79
31	---	---	---	154	141	147	152	100	119	---	---	---
MONTH	323	77	113	171	41	121	195	100	154	135	61	103
YEAR	666	41	113									

01183600 WESTFIELD RIVER AT WEST SPRINGFIELD, MASS.--Continued

PH (UNITS), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	7.1	7.0	7.0	7.2	7.1	7.2	6.8	6.7	6.8	7.0	6.9	6.9
2	7.1	7.0	7.0	7.2	7.1	7.2	6.8	6.7	6.7	7.1	7.0	7.0
3	7.2	7.0	7.1	7.2	7.2	7.2	6.8	6.7	6.8	7.0	7.0	7.0
4	7.0	6.8	6.9	7.2	7.1	7.2	6.8	6.7	6.8	7.2	6.9	7.0
5	6.8	6.8	6.8	7.2	7.2	7.2	6.8	6.8	6.8	7.2	7.0	7.1
6	6.8	6.8	6.8	7.3	7.2	7.2	6.8	6.7	6.8	7.1	7.1	7.1
7	6.9	6.8	6.8	7.2	7.2	7.2	6.7	6.6	6.6	7.2	7.1	7.1
8	6.9	6.8	6.8	7.2	7.2	7.2	6.7	6.3	6.6	7.1	7.1	7.1
9	6.9	6.8	6.8	7.2	7.2	7.2	6.7	6.6	6.7	7.1	7.1	7.1
10	7.0	6.8	6.9	7.2	7.2	7.2	6.6	6.5	6.5	7.1	7.1	7.1
11	7.2	6.9	7.0	7.2	7.2	7.2	6.6	6.5	6.6	7.1	7.1	7.1
12	7.2	7.0	7.1	7.2	7.1	7.1	6.6	6.5	6.6	7.1	7.1	7.1
13	7.3	7.1	7.2	7.2	7.2	7.2	6.7	6.6	6.6	7.1	7.0	7.1
14	7.2	7.1	7.1	7.2	7.2	7.2	6.8	6.8	6.8	7.1	7.0	7.1
15	7.1	7.0	7.1	7.2	7.1	7.1	6.9	6.8	6.8	7.1	7.0	7.1
16	7.1	7.0	7.0	7.1	7.0	7.1	6.9	6.8	6.9	7.1	7.1	7.1
17	7.1	6.9	7.0	7.2	7.1	7.1	7.1	7.0	7.1	7.1	7.0	7.1
18	7.0	7.0	7.0	7.2	7.1	7.1	7.1	7.0	7.1	7.0	7.0	7.0
19	7.0	6.9	6.9	7.2	7.1	7.1	7.1	7.1	7.1	7.1	6.9	7.0
20	6.9	6.9	6.9	7.2	7.1	7.1	7.3	7.2	7.3	7.0	6.9	7.0
21	6.9	6.8	6.9	7.2	7.1	7.2	7.3	6.8	7.1	7.1	7.0	7.0
22	6.9	6.8	6.9	7.1	7.0	7.1	6.9	6.7	6.9	7.1	6.9	6.9
23	6.9	6.8	6.9	7.0	7.0	7.0	7.0	6.9	6.9	7.2	6.9	7.0
24	6.9	6.8	6.9	7.1	7.0	7.1	6.8	6.8	6.8	7.1	6.9	7.0
25	6.9	6.8	6.8	7.0	7.0	7.0	6.8	6.7	6.8	7.1	7.0	7.1
26	6.9	6.8	6.8	7.1	7.0	7.1	6.8	6.7	6.8	7.1	7.0	7.1
27	6.9	6.8	6.8	7.1	7.0	7.1	6.7	6.7	6.7	7.1	7.0	7.0
28	6.8	6.8	6.8	7.0	7.0	7.0	6.8	6.7	6.8	7.0	6.9	7.0
29	6.8	6.7	6.8	7.0	6.9	6.9	7.0	6.7	6.8	7.0	6.9	7.0
30	7.3	6.7	7.0	6.9	6.8	6.8	6.9	6.8	6.9	7.0	6.9	7.0
31	7.3	7.2	7.3	---	---	---	6.9	6.9	6.9	7.0	6.8	6.9
MONTH	7.3	6.7	6.9	7.3	6.8	7.1	7.3	6.3	6.8	7.2	6.8	7.0

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.8	6.7	6.8	6.8	6.7	6.7	7.1	6.9	7.0	6.8	6.6	6.7
2	6.7	6.6	6.7	6.7	6.6	6.7	7.0	6.8	6.9	6.6	6.3	6.5
3	6.7	6.4	6.7	6.7	6.6	6.6	7.0	6.8	6.9	6.6	6.3	6.4
4	6.7	6.6	6.7	6.8	6.6	6.7	7.0	6.8	6.9	6.8	6.5	6.6
5	6.6	6.6	6.6	6.8	6.7	6.7	6.8	6.8	6.8	6.8	6.5	6.6
6	6.7	6.6	6.7	6.7	6.6	6.6	6.7	6.7	6.7	6.7	6.5	6.6
7	6.8	6.7	6.7	6.6	6.5	6.6	6.7	6.6	6.7	6.8	6.5	6.6
8	6.9	6.8	6.9	6.7	6.5	6.6	6.7	6.5	6.6	6.7	6.5	6.6
9	7.0	6.9	6.9	6.7	6.6	6.7	6.6	6.5	6.5	6.9	6.4	6.6
10	7.0	6.9	7.0	6.6	6.4	6.6	6.6	6.5	6.5	6.9	6.7	6.8
11	7.1	7.0	7.0	6.7	6.6	6.7	6.9	6.5	6.6	7.0	6.8	6.9
12	7.2	7.0	7.1	6.7	6.6	6.6	7.0	6.8	6.9	6.7	6.6	6.7
13	7.2	7.1	7.2	6.7	6.5	6.6	6.8	6.7	6.7	6.7	6.5	6.6
14	7.3	7.2	7.2	6.7	6.6	6.6	6.8	6.6	6.7	6.6	6.5	6.6
15	7.3	7.2	7.2	6.9	6.5	6.7	6.7	6.6	6.7	6.8	6.5	6.6
16	7.3	7.2	7.2	6.9	6.8	6.9	6.8	6.6	6.6	7.0	6.6	6.8
17	7.3	7.2	7.2	6.8	6.7	6.7	6.8	6.5	6.6	7.0	6.8	6.9
18	7.4	7.2	7.3	6.9	6.7	6.8	6.8	6.5	6.6	7.0	6.8	6.9
19	7.3	7.2	7.2	6.9	6.8	6.8	6.9	6.5	6.7	7.0	6.7	6.8
20	7.3	7.2	7.2	6.8	6.7	6.8	7.0	6.7	6.8	7.0	6.7	6.8
21	7.3	7.1	7.2	6.8	6.7	6.8	6.9	6.7	6.8	6.9	6.7	6.8
22	7.1	7.1	7.1	6.8	6.7	6.7	7.0	6.7	6.8	7.0	6.7	6.9
23	7.1	6.9	7.0	6.8	6.6	6.7	6.9	6.7	6.8	6.8	6.7	6.8
24	6.9	6.8	6.8	6.7	6.6	6.7	6.8	6.7	6.7	6.9	6.7	6.8
25	6.9	6.8	6.8	6.7	6.6	6.6	6.9	6.6	6.8	6.8	6.7	6.8
26	6.9	6.8	6.8	6.7	6.6	6.6	6.9	6.6	6.8	6.9	6.7	6.8
27	6.9	6.7	6.8	6.8	6.6	6.7	7.0	6.7	6.9	6.8	6.7	6.8
28	6.8	6.7	6.8	6.8	6.6	6.7	6.9	6.7	6.8	7.0	6.7	6.8
29	---	---	---	6.9	6.6	6.7	7.0	6.7	6.9	6.8	6.6	6.7
30	---	---	---	7.0	6.9	6.9	6.9	6.7	6.8	6.9	6.6	6.8
31	---	---	---	7.0	6.9	7.0	---	---	---	7.0	6.6	6.8
MONTH	7.4	6.4	7.0	7.0	6.4	6.7	7.1	6.5	6.8	7.0	6.3	6.7

01183600 WESTFIELD RIVER AT WEST SPRINGFIELD, MASS.--Continued

PH (UNITS), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974.--Continued

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.9	6.6	6.7	7.1	6.8	7.0	7.7	7.2	7.4	7.0	6.9	6.9
2	6.8	6.6	6.7	7.3	6.9	7.0	7.5	7.2	7.3	6.9	6.8	6.9
3	6.8	6.6	6.7	7.1	6.9	7.0	8.0	7.2	7.6	6.9	6.8	6.9
4	6.6	6.1	6.4	7.1	6.8	6.9	8.0	7.4	7.6	6.8	6.7	6.8
5	6.7	6.1	6.4	6.9	6.8	6.9	7.8	7.1	7.5	7.0	6.7	6.8
6	6.8	6.3	6.6	6.8	6.6	6.7	7.5	7.2	7.3	7.1	6.9	7.0
7	7.0	6.5	6.7	6.8	6.6	6.7	7.7	7.1	7.4	7.2	7.0	7.1
8	6.9	6.6	6.7	7.0	6.7	6.8	7.7	7.2	7.4	7.1	7.0	7.1
9	6.9	6.5	6.7	7.0	6.7	6.9	7.6	7.1	7.3	7.2	7.0	7.1
10	7.0	6.5	6.7	7.0	6.8	6.9	7.6	7.2	7.4	7.2	7.1	7.1
11	6.8	6.4	6.6	7.0	6.8	6.9	7.9	7.2	7.4	7.2	7.0	7.1
12	6.7	6.4	6.6	7.1	6.8	7.0	7.9	7.2	7.5	7.3	7.1	7.2
13	6.8	6.4	6.6	7.1	6.9	7.0	8.3	7.1	7.6	7.2	6.9	7.0
14	7.0	6.5	6.7	7.3	7.0	7.1	8.4	7.3	7.8	7.1	6.9	7.0
15	7.0	6.6	6.8	7.2	7.0	7.1	8.4	7.2	7.8	7.3	7.0	7.1
16	6.8	6.6	6.7	7.4	6.9	7.1	8.6	7.2	8.0	7.2	7.1	7.1
17	6.8	6.6	6.7	7.3	7.0	7.1	8.5	7.4	7.9	7.2	7.0	7.1
18	6.8	6.5	6.6	7.5	7.0	7.2	8.5	7.3	7.8	7.1	7.0	7.0
19	6.7	6.4	6.5	7.5	7.1	7.2	8.4	7.4	7.9	7.1	6.9	7.0
20	6.9	6.6	6.8	7.1	7.0	7.0	7.9	7.2	7.5	7.2	7.0	7.1
21	6.8	6.7	6.8	7.4	7.0	7.2	8.5	7.3	7.8	7.2	6.9	7.0
22	7.0	6.7	6.8	7.6	7.1	7.3	9.0	7.5	8.2	7.1	6.9	7.0
23	6.8	6.7	6.8	7.7	7.2	7.4	8.6	7.3	7.9	7.3	7.1	7.2
24	7.0	6.7	6.8	7.5	7.2	7.3	7.2	6.8	7.0	7.2	7.1	7.1
25	6.9	6.8	6.8	7.6	7.2	7.3	7.1	6.8	6.9	7.1	7.0	7.1
26	6.9	6.8	6.8	7.5	7.2	7.3	7.2	6.8	7.0	7.2	6.9	7.1
27	7.0	6.8	6.9	7.4	7.1	7.2	7.2	6.8	7.0	7.1	7.0	7.1
28	7.1	6.9	7.0	7.3	7.2	7.2	7.2	6.9	7.0	7.1	6.9	7.0
29	7.1	6.8	6.9	7.3	7.1	7.2	7.2	6.9	7.0	7.1	6.8	6.9
30	7.1	6.9	7.0	7.4	7.1	7.2	7.1	6.9	7.0	7.0	6.8	6.9
31	---	---	---	7.6	7.2	7.3	7.1	6.9	7.0	---	---	---
MONTH	7.1	6.1	6.7	7.7	6.6	7.1	9.0	6.8	7.5	7.3	6.7	7.0
YEAR	9.0	6.1	6.9									

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	8.0	7.0	7.6	9.1	8.6	8.9	12.0	11.0	11.4	14.0	12.3	13.2
2	8.0	7.4	7.7	9.8	9.2	9.5	14.0	12.0	13.0	13.8	12.6	13.3
3	8.4	7.7	7.9	9.6	9.2	9.4	14.1	13.5	13.7	13.6	12.7	13.1
4	7.7	6.4	6.9	10.3	9.5	9.8	14.1	12.4	13.1	12.9	12.2	12.6
5	6.7	6.1	6.4	11.2	10.3	10.6	12.8	10.0	11.5	14.2	12.9	13.7
6	6.7	6.0	6.3	11.6	11.3	11.4	10.1	9.4	9.9	14.3	13.4	13.9
7	7.5	6.1	6.7	11.5	10.8	11.1	11.3	10.2	10.8	13.6	13.0	13.3
8	7.7	6.9	7.1	11.1	10.4	10.7	12.4	11.5	12.0	14.4	13.1	13.7
9	7.9	7.1	7.4	11.0	10.1	10.6	12.6	11.5	12.2	14.6	13.2	14.0
10	8.2	7.3	7.7	11.5	10.5	11.2	12.0	11.1	11.6	13.8	13.0	13.4
11	8.1	7.4	7.8	12.2	11.6	11.9	12.5	12.0	12.3	13.4	12.5	13.0
12	8.2	7.3	7.6	12.1	11.3	11.8	12.4	12.2	12.3	12.8	12.4	12.5
13	8.4	7.5	7.9	11.7	10.6	11.3	12.6	12.1	12.4	13.4	12.6	13.0
14	8.3	7.6	8.0	10.7	9.3	10.0	12.0	10.4	11.1	13.8	13.0	13.5
15	8.3	7.4	7.9	9.5	8.3	9.0	11.5	10.4	11.0	13.8	11.9	12.8
16	8.6	7.5	8.0	8.8	8.1	8.5	13.5	11.2	12.7	12.3	11.6	12.0
17	8.9	7.9	8.3	9.0	8.2	8.6	14.2	13.4	13.9	12.9	11.9	12.3
18	8.8	8.3	8.6	10.3	9.3	9.9	14.8	13.7	14.4	13.6	12.6	13.3
19	9.3	8.2	8.6	10.1	9.7	9.9	14.8	13.7	14.4	12.5	11.3	12.0
20	8.9	8.4	8.6	11.2	10.1	10.8	13.6	13.0	13.4	12.5	11.5	12.2
21	8.9	8.0	8.4	12.2	11.1	11.8	---	---	---	12.5	11.7	12.3
22	9.2	8.4	8.8	11.5	10.1	11.0	---	---	---	12.1	11.4	11.8
23	9.5	8.9	9.1	10.4	9.4	9.8	---	---	---	12.8	11.7	12.3
24	9.5	6.9	9.2	11.3	9.9	10.7	---	---	---	12.3	11.7	12.1
25	9.2	8.3	8.6	10.7	9.3	10.1	---	---	---	12.3	11.0	11.7
26	8.6	7.9	8.3	11.4	9.7	10.4	---	---	---	12.7	11.4	11.9
27	8.6	7.9	8.3	11.6	10.7	11.1	---	---	---	11.8	10.2	11.2
28	8.8	8.0	8.4	11.1	10.4	10.7	12.6	12.0	12.3	12.6	11.7	12.1
29	8.7	8.0	8.3	10.8	10.5	10.7	13.8	12.3	13.0	12.4	11.7	12.1
30	8.5	7.2	8.3	11.3	11.1	11.2	13.6	12.2	12.7	13.3	12.0	12.6
31	9.3	9.0	9.2	---	---	---	13.9	13.4	13.7	13.8	12.6	13.1
MONTH	9.5	6.0	8.0	12.2	8.1	10.4	---	---	---	14.6	10.2	12.7

01183600 WESTFIELD RIVER AT WEST SPRINGFIELD, MASS.--Continued

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974.--Continued

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	12.4	11.0	11.7	---	---	---	8.5	6.8	7.8
2	---	---	---	13.6	12.1	12.9	---	---	---	9.3	8.0	8.8
3	---	---	---	14.8	13.3	14.3	---	---	---	9.7	9.0	9.4
4	---	---	---	14.2	11.7	13.0	---	---	---	10.4	9.0	9.9
5	---	---	---	12.0	10.9	11.4	---	---	---	9.9	9.5	9.7
6	---	---	---	13.3	12.1	12.6	---	---	---	10.3	9.4	9.8
7	---	---	---	13.7	10.6	12.3	---	---	---	10.2	6.7	9.1
8	13.2	12.6	12.9	11.6	11.2	11.4	---	---	---	10.9	9.8	10.3
9	12.2	11.9	12.6	---	---	---	---	---	---	10.3	9.4	9.9
10	14.4	12.2	13.0	---	---	---	---	---	---	9.9	7.8	9.3
11	13.0	12.2	12.6	---	---	---	12.1	10.9	11.4	11.2	9.9	10.7
12	13.2	11.6	12.4	---	---	---	11.6	10.0	10.7	10.3	8.9	9.7
13	13.1	11.2	12.1	---	---	---	11.3	9.7	10.4	11.1	9.4	10.1
14	12.0	10.6	11.4	---	---	---	11.6	10.5	11.3	11.4	9.7	10.7
15	13.2	11.5	12.5	13.2	12.4	12.8	---	---	---	10.5	9.1	9.6
16	14.5	12.7	13.5	12.9	11.2	11.9	---	---	---	9.6	8.3	8.9
17	14.1	11.4	12.9	13.7	12.1	13.1	---	---	---	8.5	7.3	8.1
18	14.1	11.7	13.1	14.2	12.8	13.6	---	---	---	8.0	4.9	5.8
19	13.8	12.5	13.1	15.1	14.3	14.7	10.8	9.9	10.3	8.3	5.3	6.0
20	12.5	9.9	11.2	---	---	---	11.4	10.5	10.9	9.1	8.4	8.8
21	13.9	9.9	11.7	---	---	---	11.8	9.9	10.8	9.9	8.6	9.4
22	11.8	9.5	10.6	13.0	12.0	12.3	10.1	8.8	9.6	9.6	9.0	9.4
23	14.0	9.6	11.8	13.5	11.1	12.3	9.4	9.0	9.2	9.0	8.2	8.6
24	---	---	---	12.1	10.9	11.5	10.8	9.4	9.9	9.6	8.4	9.0
25	---	---	---	15.1	12.3	13.5	11.0	6.3	9.6	9.9	9.3	9.6
26	---	---	---	13.9	12.1	12.9	10.6	8.5	10.0	10.5	9.8	10.2
27	---	---	---	12.6	10.6	11.6	10.3	8.6	9.7	10.8	9.8	10.3
28	---	---	---	12.3	9.8	11.0	9.5	8.8	9.1	11.2	9.4	10.8
29	---	---	---	13.6	11.1	12.7	8.7	7.8	8.3	10.7	9.9	10.3
30	---	---	---	---	---	---	8.2	6.3	7.6	10.0	9.3	9.7
31	---	---	---	---	---	---	---	---	---	10.0	8.4	9.3
MONTH	---	---	---	---	---	---	---	---	---	11.4	4.9	9.3

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	9.3	8.5	8.9	7.6	6.8	7.2	8.0	6.8	7.4	7.9	7.4	7.5
2	9.7	8.5	9.2	7.6	6.7	7.1	7.8	6.8	7.2	7.3	6.8	7.1
3	9.7	8.8	9.3	6.9	6.1	6.5	7.9	7.1	7.5	7.4	6.6	7.0
4	9.5	8.3	8.9	6.9	5.9	6.3	7.9	6.5	7.2	8.8	7.3	8.0
5	9.2	7.7	8.5	6.2	5.7	5.9	7.9	6.4	7.2	8.7	8.1	8.5
6	8.7	7.5	8.1	7.0	5.6	6.6	7.5	6.5	7.0	8.4	8.0	8.2
7	9.1	7.4	8.2	7.0	6.2	6.8	8.0	6.6	7.2	8.1	7.8	8.0
8	8.8	7.5	8.2	6.5	5.9	6.3	7.7	6.9	7.3	8.1	7.8	8.0
9	8.6	7.0	7.8	6.3	5.8	6.1	7.6	6.6	7.0	7.9	7.6	7.8
10	8.2	6.1	7.2	6.3	5.4	5.9	7.7	6.6	7.1	8.0	7.4	7.7
11	8.4	5.8	6.9	6.3	5.7	6.0	7.8	6.6	7.1	7.6	7.2	7.4
12	7.5	6.2	6.9	6.8	5.9	6.3	7.6	6.5	7.0	7.5	7.0	7.3
13	8.2	6.3	7.2	7.2	6.5	6.8	7.9	6.3	7.0	8.2	7.1	7.6
14	8.6	6.5	7.5	7.4	6.6	7.0	8.5	6.2	7.2	7.8	6.9	7.5
15	8.7	6.9	7.9	7.2	6.5	6.8	8.8	6.8	7.7	8.0	6.6	7.3
16	7.9	6.9	7.3	7.6	6.3	6.9	9.2	6.5	7.9	8.5	7.7	8.0
17	7.3	6.5	7.0	7.8	7.0	7.4	8.6	7.1	7.9	8.7	8.2	8.5
18	7.7	6.6	7.2	8.2	7.3	7.8	9.2	6.6	7.9	8.6	7.8	8.2
19	7.8	6.9	7.3	8.3	7.2	7.6	9.2	7.3	8.2	8.4	7.8	8.1
20	7.4	6.8	7.1	7.2	6.5	6.9	8.3	6.7	7.5	8.7	7.9	8.3
21	7.0	6.6	6.7	8.0	6.6	7.4	8.9	7.1	7.9	7.8	7.2	7.5
22	7.4	6.5	6.9	8.5	7.3	7.9	11.0	7.3	9.2	8.0	7.2	7.7
23	6.8	6.4	6.6	8.6	7.5	8.0	10.0	8.2	9.1	9.2	7.8	8.4
24	7.7	6.8	7.4	8.5	7.5	7.9	7.9	6.8	7.4	9.6	8.9	9.2
25	7.6	7.2	7.4	8.5	7.0	7.8	8.5	6.6	7.5	9.6	9.3	9.5
26	8.1	7.5	7.8	8.6	7.5	7.9	8.7	7.0	7.8	9.5	9.2	9.4
27	8.3	7.8	8.0	8.2	7.3	7.7	8.5	7.2	7.8	9.3	8.8	8.9
28	8.8	8.2	8.5	7.6	7.0	7.3	8.4	7.2	7.7	8.9	8.1	8.4
29	8.4	7.7	8.0	7.5	6.7	7.1	7.8	7.1	7.4	8.1	7.3	7.7
30	7.9	7.3	7.7	7.5	6.7	7.1	7.2	6.5	6.9	8.9	8.2	8.6
31	---	---	---	7.6	6.7	7.1	8.1	6.9	7.5	---	---	---
MONTH	9.7	5.8	7.7	8.6	5.4	7.0	11.0	6.2	7.5	9.6	6.6	8.0
YEAR	15.1	4.9	9.6									

01183600 WESTFIELD RIVER AT WEST SPRINGFIELD, MASS.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	17.0	15.0	16.0	11.0	10.0	10.5	6.0	3.5	5.0	2.0	1.0	1.5
2	15.5	14.0	14.5	10.5	9.0	10.0	3.5	1.0	2.0	2.0	1.0	1.5
3	16.0	15.0	15.5	10.0	8.0	9.0	2.5	0.5	1.5	2.0	1.0	1.5
4	18.0	15.5	16.5	8.0	5.5	7.0	3.5	1.0	2.5	3.0	1.5	2.0
5	18.0	16.5	17.5	6.0	4.0	5.5	8.0	3.0	5.0	1.5	0.0	0.5
6	17.5	15.0	16.0	4.5	3.0	3.5	9.5	8.0	9.0	0.5	0.0	0.5
7	16.0	14.5	15.5	4.0	3.0	3.5	8.5	5.0	7.0	1.5	0.5	1.0
8	15.5	13.5	14.5	4.0	2.5	3.5	5.0	3.0	4.0	0.5	0.5	0.5
9	14.5	13.0	14.0	3.5	2.5	3.0	3.0	1.5	2.5	0.5	0.5	0.5
10	15.0	13.5	14.0	2.5	1.0	1.5	5.5	3.0	4.5	0.5	0.5	0.5
11	15.0	13.5	14.0	1.5	1.0	1.0	4.0	2.5	3.5	1.0	0.5	0.5
12	14.5	13.0	13.5	1.5	1.0	1.5	3.5	2.0	2.5	1.0	0.5	0.5
13	14.5	13.0	13.5	3.0	1.5	2.5	2.0	1.0	1.5	0.5	0.0	0.5
14	15.0	14.0	14.5	6.5	3.5	5.0	4.5	2.5	3.5	0.5	0.0	0.5
15	15.0	13.5	14.0	8.0	5.5	7.0	4.0	2.5	3.5	1.0	0.5	0.5
16	14.0	12.0	13.0	8.5	7.5	8.5	2.5	0.0	1.0	1.0	0.5	1.0
17	12.0	10.5	11.0	7.5	5.0	6.0	0.5	0.0	0.0	1.0	0.0	0.5
18	10.5	9.0	10.0	5.0	3.5	4.5	0.5	0.0	0.0	0.5	0.0	0.5
19	10.5	9.0	9.5	7.5	5.0	6.0	0.5	0.0	0.0	1.0	0.5	1.0
20	10.0	9.5	10.0	6.0	3.5	4.5	0.5	0.0	0.0	1.0	0.0	0.5
21	11.0	9.0	10.0	4.0	2.0	3.0	1.5	0.5	1.0	1.0	0.5	0.5
22	10.5	9.0	10.0	5.5	3.5	4.5	1.5	0.0	1.0	1.0	0.5	1.0
23	11.0	9.0	10.0	6.5	5.0	5.5	2.0	0.0	1.0	1.5	0.5	1.0
24	11.5	9.5	10.0	5.5	4.0	4.5	1.5	0.0	0.5	2.0	1.0	1.5
25	12.0	10.5	11.0	7.0	5.0	6.0	0.0	0.0	0.0	2.5	1.0	2.0
26	12.5	11.5	12.0	8.0	6.5	7.0	2.5	0.0	1.0	3.0	0.5	2.0
27	13.0	11.5	12.0	7.0	6.5	7.0	3.5	2.0	3.0	4.5	1.5	2.5
28	11.5	10.5	11.0	7.5	7.0	7.5	3.5	2.0	3.0	3.0	1.5	2.5
29	10.5	9.0	9.5	7.5	6.5	7.0	3.0	1.5	2.0	4.0	2.0	3.0
30	12.0	9.5	11.0	6.5	5.5	6.0	3.0	1.5	2.0	4.0	2.0	3.0
31	11.0	10.0	10.0	---	---	---	1.5	1.0	1.5	3.5	1.5	3.0
MONTH	18.0	9.0	12.5	11.0	1.0	5.5	9.5	0.0	2.5	4.5	0.0	1.0

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	2.5	0.5	1.5	5.5	3.5	4.5	8.0	2.0	5.0	17.5	14.5	16.0
2	---	---	---	3.5	2.0	3.0	7.5	6.0	7.0	15.0	12.5	13.5
3	---	---	---	2.0	1.0	1.5	10.0	4.5	7.0	13.0	10.5	11.5
4	---	---	---	5.0	1.0	3.0	11.5	9.0	10.5	12.5	9.5	11.0
5	---	---	---	6.5	4.5	5.5	10.5	9.0	10.0	13.5	9.0	11.5
6	---	---	---	5.0	3.0	4.0	9.0	7.0	8.0	12.0	10.0	11.0
7	---	---	---	7.5	3.0	5.5	8.5	5.0	6.5	12.0	9.5	11.0
8	0.5	0.0	0.5	7.0	5.0	6.0	9.0	7.0	8.0	13.0	9.0	11.0
9	1.0	0.0	0.5	5.0	2.5	4.0	6.5	1.5	3.5	13.0	11.0	12.0
10	1.0	0.0	0.5	3.5	2.0	2.5	5.5	2.0	4.0	12.0	10.0	11.0
11	1.0	0.5	0.5	4.5	1.0	3.0	6.5	3.0	5.0	12.5	9.5	11.0
12	1.0	0.0	0.5	4.5	2.0	3.0	8.5	5.5	7.0	12.0	11.0	11.5
13	2.0	0.5	1.0	3.0	0.5	2.0	7.5	5.0	6.5	11.0	9.0	10.0
14	2.5	1.5	1.5	3.5	1.0	2.0	6.0	4.5	5.0	12.0	9.0	10.5
15	1.5	0.0	1.0	4.5	2.0	3.5	10.5	6.0	8.5	16.5	11.5	14.0
16	1.5	0.0	0.5	5.0	3.5	4.5	10.5	7.0	9.0	19.5	15.0	17.0
17	2.0	0.5	1.0	4.0	2.0	2.5	11.0	7.0	9.0	19.5	16.5	18.0
18	2.0	0.5	1.0	3.0	1.5	2.0	13.0	8.5	11.0	20.5	16.5	18.0
19	1.5	0.5	1.0	5.0	1.5	3.0	12.0	9.5	11.0	19.5	16.0	18.0
20	3.0	1.0	2.0	5.0	2.0	3.5	11.5	8.0	10.0	18.5	15.5	17.0
21	3.5	0.0	2.0	4.0	1.5	3.0	12.5	8.0	10.5	17.0	14.5	15.5
22	3.5	1.5	2.5	4.0	1.0	2.5	14.5	11.0	13.0	18.0	15.0	16.5
23	3.0	0.5	1.5	5.0	2.0	3.5	15.0	12.5	14.0	18.0	16.0	16.5
24	1.0	0.0	0.0	4.5	3.5	4.0	12.5	10.0	11.5	16.0	14.0	15.0
25	1.5	0.0	1.0	3.5	1.5	2.5	12.5	9.0	10.5	14.5	13.0	13.5
26	3.0	0.5	1.5	4.0	2.0	3.0	12.5	9.5	11.0	13.5	11.5	12.5
27	4.0	0.0	2.0	6.0	3.0	4.5	14.5	10.0	12.0	12.5	11.5	12.0
28	5.0	1.0	3.0	7.0	3.5	5.0	14.5	12.0	13.0	13.0	10.5	11.5
29	---	---	---	5.0	2.0	3.0	17.5	13.5	16.0	12.5	11.5	12.0
30	---	---	---	1.5	0.0	1.0	18.0	16.0	17.0	15.5	12.5	14.0
31	---	---	---	3.5	1.0	2.0	---	---	---	16.5	14.5	15.5
MONTH	5.0	0.0	1.0	7.5	0.0	3.5	18.0	1.5	9.5	20.5	9.0	13.5

01183600 WESTFIELD RIVER AT WEST SPRINGFIELD, MASS.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974.--Continued

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	17.0	15.5	16.5	23.5	20.0	22.0	25.5	23.5	24.5	22.0	20.0	21.0
2	16.5	14.5	15.5	25.0	21.0	23.0	28.0	23.5	25.5	21.5	20.0	20.5
3	18.0	14.0	16.0	24.0	22.5	23.5	26.5	24.5	25.5	20.0	17.5	18.5
4	19.0	15.5	17.5	26.5	22.5	24.5	27.5	25.0	26.0	17.5	15.0	16.5
5	20.5	18.0	19.0	25.5	23.0	24.5	27.0	25.5	26.0	17.5	14.5	16.0
6	22.0	19.0	20.5	23.0	21.0	22.0	26.5	24.5	25.5	17.0	16.0	16.5
7	22.0	18.5	20.0	24.5	20.0	22.0	25.0	23.5	24.5	17.5	16.0	16.5
8	22.5	18.5	20.5	25.5	22.5	24.0	24.5	22.5	23.5	19.0	16.0	17.0
9	23.5	19.5	21.5	26.5	23.5	25.0	23.0	21.5	22.5	19.5	17.5	18.5
10	27.0	22.0	24.0	26.0	24.0	25.5	22.5	21.0	22.0	22.0	18.5	20.0
11	25.5	23.0	24.0	26.0	23.0	24.5	23.5	20.5	22.0	22.0	20.0	21.0
12	23.5	21.5	22.5	24.5	21.0	23.0	25.5	21.0	23.0	23.5	21.0	22.0
13	23.0	19.5	21.0	25.0	21.0	23.0	25.5	21.5	23.0	22.0	19.5	21.0
14	24.0	20.0	22.0	25.5	22.0	23.5	26.0	22.5	24.5	22.5	19.0	20.0
15	23.0	20.0	21.5	26.0	23.5	25.0	26.5	23.0	24.5	21.0	19.0	20.5
16	22.0	21.0	21.5	26.0	24.0	25.0	27.0	22.5	24.5	19.5	17.5	18.5
17	22.0	20.5	21.5	26.0	23.5	24.5	25.5	23.5	24.0	18.0	16.0	17.0
18	23.0	20.5	21.5	25.0	23.0	24.0	25.0	22.5	23.5	18.5	17.0	17.5
19	22.0	20.5	21.5	25.0	23.0	24.0	26.5	22.0	23.5	18.0	17.0	17.5
20	23.0	21.0	22.0	24.0	22.0	23.0	25.5	22.0	24.0	19.0	17.0	18.0
21	22.0	20.5	21.5	23.5	21.5	22.5	26.5	23.5	25.0	19.0	18.5	19.0
22	23.0	20.0	21.5	24.5	21.5	23.0	27.0	23.0	25.0	18.5	16.5	18.0
23	22.0	20.0	21.5	24.0	22.0	23.0	24.5	23.0	24.0	18.0	14.5	16.5
24	22.0	18.5	20.5	23.0	21.0	22.0	24.5	21.5	23.0	15.0	13.0	14.5
25	21.0	18.5	20.0	23.0	20.5	21.5	24.5	22.0	23.0	13.5	13.0	13.0
26	18.5	17.5	18.0	22.5	20.5	21.5	24.0	22.5	23.0	13.5	12.5	13.5
27	18.0	16.5	17.5	22.5	21.5	21.5	23.0	22.0	22.5	16.0	13.0	14.5
28	19.0	16.0	17.5	22.0	21.5	22.0	24.0	22.0	23.0	16.5	14.5	15.5
29	19.5	17.5	18.5	23.0	21.5	22.0	22.5	21.0	21.5	18.0	16.5	17.5
30	22.0	18.0	20.0	24.0	22.0	22.5	21.0	19.0	20.0	16.5	15.0	15.5
31	---	---	---	25.0	22.5	23.5	20.0	19.0	19.5	---	---	---
MONTH	27.0	14.0	20.0	26.5	20.0	23.0	28.0	19.0	23.5	23.5	12.5	17.5
YEAR	28.0	0.0	11.5									

01183750 CONNECTICUT RIVER AT AGAWAM, MASS.

LOCATION.--Lat 42°02'57", long 72°36'35", Hampden County, multiple-parameter monitor on right bank at Agawam, Mass., 1.4 mi (2.3 km) upstream from Massachusetts-Connecticut State line, and 4.5 mi (7.2 km) upstream from gaging station at Thompsonville, Conn.

DRAINAGE AREA.--9,661 mi² (25,022 km²) at gage at Thompsonville, Conn.

PERIOD OF RECORD.--Chemical analyses: January 1969 to current year.
Water temperatures: January 1969 to current year.
Prior to October 1971, published as 01184000 Connecticut River at Thompsonville, Conn.

EXTREMES.--Current year:
Specific conductance: Maximum, 180 micromhos/cm Aug. 26; minimum, 56 micromhos/cm Dec. 31.
pH: Maximum, 9.0 Aug. 16; minimum, 6.0 Apr. 5, 9.
Dissolved oxygen: Maximum recorded, 14.2 mg/l Jan. 6; minimum, 5.7 mg/l Sept. 14.
Water temperatures: Maximum recorded, 27.5°C several days in August; minimum, freezing point on several days during winter period.

Period of record:
Specific conductance: Maximum, 268 micromhos/cm Feb. 3, 1973; minimum, 49 micromhos/cm Apr. 23, 1969.
pH: Maximum, 9.7 Aug. 9, 1970; minimum, 5.8 Oct. 26, 1971.
Dissolved oxygen: Maximum, 15.9 mg/l Feb. 17, 1971; minimum, 1.0 mg/l Aug. 20, 1971.
Water temperatures: Maximum, 31.5°C Aug. 16, 1970; minimum, freezing point on several days during winter periods.

REMARKS.--Figures of daily discharge for gaging station at Thompsonville, Conn. (sta 01184000) are used for this site. Samples for previously published monthly chemical analyses were taken at gaging station at Thompsonville.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C) , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	149	143	146	108	104	106	98	80	93	82	65	72
2	148	144	146	110	96	104	102	98	99	84	79	81
3	151	146	149	110	105	107	108	100	102	93	80	85
4	151	134	149	107	104	106	116	100	109	104	89	95
5	145	137	142	112	106	109	114	100	110	107	92	97
6	140	112	135	112	106	109	114	80	102	99	92	95
7	136	130	132	110	106	108	86	68	81	99	93	96
8	136	125	130	118	110	115	88	80	84	103	94	100
9	142	136	139	124	116	121	94	80	90	105	95	98
10	139	129	134	124	118	120	94	60	75	107	101	104
11	137	126	132	131	100	123	70	60	64	141	104	119
12	137	130	134	---	---	---	80	64	76	139	122	129
13	140	134	138	---	---	---	86	80	83	---	---	---
14	142	137	140	---	---	---	93	80	89	---	---	---
15	---	---	---	---	---	---	94	78	86	---	---	---
16	---	---	---	118	113	116	87	80	83	---	---	---
17	---	---	---	113	104	110	120	82	104	---	---	---
18	---	---	---	110	106	108	111	100	103	---	---	---
19	---	---	---	113	106	109	107	101	105	---	---	---
20	---	---	---	114	109	112	149	106	113	---	---	---
21	---	---	---	116	112	114	157	58	121	---	---	---
22	---	---	---	117	111	115	75	59	68	---	---	---
23	---	---	---	128	115	119	75	63	69	---	---	---
24	---	---	---	124	112	118	66	62	64	---	---	---
25	128	124	125	111	106	108	65	61	63	---	---	---
26	130	122	127	116	108	111	68	63	65	---	---	---
27	140	124	131	109	98	102	68	60	63	---	---	---
28	144	123	137	98	94	96	63	60	62	91	82	87
29	140	126	134	98	76	88	64	59	62	87	80	83
30	142	116	129	94	75	83	60	57	59	82	76	80
31	118	104	107	---	---	---	67	56	61	87	77	82
MONTH	---	---	---	131	75	109	157	56	84	---	---	---

01183750 CONNECTICUT RIVER AT AGAWAM, MASS.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974.--Continued

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	87	83	85	---	---	---	108	104	107	86	81	85
2	93	85	88	---	---	---	109	105	107	81	78	80
3	---	---	---	---	---	---	106	98	103	80	75	77
4	---	---	---	---	---	---	99	84	91	78	75	76
5	---	---	---	---	---	---	87	81	84	75	72	73
6	---	---	---	88	84	86	87	79	84	---	---	---
7	---	---	---	90	82	86	84	76	78	---	---	---
8	---	---	---	95	85	91	80	73	75	---	---	---
9	---	---	---	88	83	86	78	73	75	---	---	---
10	---	---	---	90	83	86	84	75	78	91	86	89
11	---	---	---	89	85	87	80	76	78	90	79	83
12	---	---	---	95	85	90	84	78	81	81	77	79
13	---	---	---	99	91	94	86	81	84	81	58	68
14	---	---	---	104	98	101	85	80	82	67	59	64
15	---	---	---	107	102	104	86	71	79	76	66	70
16	---	---	---	111	101	107	75	71	73	76	73	74
17	---	---	---	111	86	99	79	74	76	76	74	75
18	---	---	---	---	---	---	81	75	78	91	75	79
19	---	---	---	---	---	---	84	82	83	96	80	88
20	---	---	---	---	---	---	86	81	84	95	83	90
21	---	---	---	---	---	---	87	85	86	99	90	95
22	---	---	---	---	---	---	90	86	88	107	99	103
23	---	---	---	---	---	---	---	---	---	107	99	103
24	---	---	---	---	---	---	---	---	---	112	99	105
25	---	---	---	---	---	---	84	82	83	97	88	93
26	---	---	---	---	---	---	81	77	79	90	86	88
27	---	---	---	---	---	---	79	77	78	89	85	87
28	---	---	---	---	---	---	81	78	80	88	84	86
29	---	---	---	---	---	---	84	81	82	86	80	83
30	---	---	---	---	---	---	84	82	83	89	83	86
31	---	---	---	---	---	---	---	---	---	93	87	90
MONTH	---	---	---	---	---	---	109	71	84	112	58	84

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	94	91	93	121	113	117	131	127	129	131	122	125
2	94	86	89	120	111	114	134	128	131	135	120	128
3	96	89	91	121	107	113	132	127	130	137	121	130
4	97	94	95	123	117	120	134	125	128	126	120	124
5	102	96	98	119	104	112	144	133	137	123	110	118
6	105	100	102	103	88	95	134	128	132	115	110	112
7	109	104	107	97	82	88	132	126	129	118	113	115
8	112	107	110	95	87	91	129	125	127	118	114	116
9	128	110	117	104	93	98	130	124	126	120	116	118
10	131	118	124	119	101	109	138	128	132	121	116	119
11	124	118	122	123	110	117	152	137	144	119	110	113
12	120	115	117	124	116	121	153	144	148	118	112	115
13	128	118	123	117	112	115	152	142	146	119	115	117
14	138	120	129	125	114	118	160	136	148	117	112	114
15	130	124	127	124	115	120	157	149	153	121	112	116
16	---	---	---	125	123	124	159	152	155	121	114	117
17	---	---	---	---	---	---	158	151	154	119	115	117
18	---	---	---	---	---	---	162	154	157	116	113	115
19	---	---	---	---	---	---	160	156	158	118	109	114
20	---	---	---	---	---	---	158	147	152	122	115	119
21	---	---	---	---	---	---	175	146	160	125	113	121
22	---	---	---	---	---	---	175	167	170	120	115	118
23	---	---	---	---	---	---	166	161	164	119	109	113
24	118	111	115	---	---	---	172	161	167	119	107	111
25	120	112	116	---	---	---	174	165	167	122	120	121
26	117	113	115	122	120	121	180	171	176	124	118	120
27	121	116	119	121	119	120	173	169	171	128	124	127
28	121	113	117	---	---	---	179	170	174	130	121	126
29	117	112	114	---	---	---	176	139	163	116	98	108
30	117	113	115	---	---	---	144	133	139	110	104	106
31	---	---	---	---	---	---	142	131	136	---	---	---
MONTH	---	---	---	---	---	---	180	124	148	137	98	118
YEAR	180	56	107									

01183750 CONNECTICUT RIVER AT AGAWAM, MASS.--Continued

PH (UNITS), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.8	6.7	6.7	7.0	6.9	6.9	7.1	7.0	7.1	6.8	6.7	6.8
2	6.9	6.7	6.8	7.1	6.9	7.0	7.1	7.0	7.1	6.8	6.7	6.8
3	7.0	6.8	6.9	7.1	7.0	7.0	7.2	7.0	7.1	6.7	6.5	6.6
4	7.0	6.8	6.9	7.1	7.0	7.1	7.1	7.0	7.1	6.6	6.5	6.5
5	7.0	6.9	6.9	7.1	7.0	7.1	7.1	7.0	7.0	6.6	6.6	6.6
6	7.1	6.9	7.0	7.1	7.0	7.1	7.1	6.9	7.0	6.8	6.7	6.7
7	7.0	6.9	7.0	7.1	7.0	7.1	7.0	6.8	6.9	6.8	6.7	6.7
8	7.1	6.1	7.0	7.1	7.0	7.0	6.9	6.8	6.8	6.8	6.8	6.8
9	7.2	7.0	7.1	7.0	6.9	7.0	7.0	6.8	6.9	6.8	6.8	6.8
10	7.1	6.4	7.0	7.0	6.9	7.0	6.9	6.4	6.7	6.9	6.7	6.8
11	7.1	7.0	7.0	---	---	---	6.8	6.1	6.7	6.7	6.6	6.7
12	7.2	7.1	7.2	---	---	---	6.9	6.8	6.9	6.8	6.8	6.8
13	7.3	7.1	7.2	---	---	---	6.9	6.8	6.9	---	---	---
14	7.2	7.1	7.2	---	---	---	7.0	6.8	6.9	---	---	---
15	---	---	---	---	---	---	6.8	6.7	6.8	---	---	---
16	---	---	---	6.9	6.7	6.8	6.9	6.8	6.8	---	---	---
17	---	---	---	7.0	6.8	6.9	6.9	6.9	6.9	---	---	---
18	---	---	---	7.1	7.0	7.1	6.9	6.8	6.9	---	---	---
19	---	---	---	7.2	7.1	7.1	6.9	6.8	6.9	---	---	---
20	---	---	---	7.2	7.1	7.1	7.2	6.9	7.0	---	---	---
21	---	---	---	7.1	7.0	7.1	7.1	6.6	7.0	---	---	---
22	---	---	---	7.1	7.0	7.1	6.9	6.6	6.9	---	---	---
23	---	---	---	7.0	6.9	6.9	7.1	6.9	7.0	---	---	---
24	---	---	---	7.0	6.9	7.0	7.0	6.9	7.0	---	---	---
25	6.8	6.8	6.8	7.1	7.0	7.1	7.0	6.9	7.0	---	---	---
26	6.9	6.8	6.8	7.0	7.0	7.0	7.0	6.9	7.0	---	---	---
27	---	---	---	7.1	7.0	7.0	6.9	6.9	6.9	---	---	---
28	7.1	6.8	6.9	7.0	6.9	7.0	6.9	6.9	6.9	6.9	6.8	6.8
29	7.1	6.8	7.0	7.0	7.0	7.0	6.9	6.8	6.8	6.9	6.8	6.9
30	7.1	7.0	7.1	7.1	6.9	7.0	6.8	6.7	6.8	6.9	6.8	6.9
31	7.0	7.0	7.0	---	---	---	6.7	6.6	6.7	6.9	6.8	6.9
MONTH	---	---	---	7.2	6.7	7.0	7.2	6.1	6.9	---	---	---

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.9	6.8	6.9	---	---	---	7.0	6.9	6.9	7.2	7.0	7.1
2	7.0	6.9	6.9	---	---	---	6.9	6.8	6.9	7.2	7.0	7.1
3	---	---	---	---	---	---	7.0	6.9	7.0	7.0	6.6	6.8
4	---	---	---	---	---	---	7.0	6.9	6.9	6.9	6.4	6.8
5	---	---	---	---	---	---	7.0	6.0	6.9	6.9	6.8	6.8
6	---	---	---	6.9	6.9	6.9	7.1	7.0	7.1	---	---	---
7	---	---	---	7.0	6.9	7.0	7.1	7.0	7.1	---	---	---
8	---	---	---	7.0	7.0	7.0	7.1	7.0	7.0	---	---	---
9	---	---	---	7.0	7.0	7.0	7.0	6.0	6.9	---	---	---
10	---	---	---	7.0	7.0	7.0	7.0	7.0	7.0	6.7	6.6	6.7
11	---	---	---	7.0	6.9	7.0	7.0	7.0	7.0	6.9	6.7	6.7
12	---	---	---	7.0	6.8	6.9	7.0	6.9	6.9	6.8	6.6	6.8
13	---	---	---	6.9	6.8	6.9	6.9	6.8	6.9	6.8	6.5	6.7
14	---	---	---	6.9	6.8	6.9	7.0	6.8	6.9	6.9	6.5	6.7
15	---	---	---	6.9	6.8	6.9	6.9	6.6	6.8	6.9	6.8	6.8
16	---	---	---	6.9	6.8	6.8	6.9	6.6	6.7	6.9	6.7	6.8
17	---	---	---	6.9	6.8	6.8	7.1	6.9	7.0	6.9	6.8	6.8
18	---	---	---	---	---	---	7.0	6.9	7.0	6.8	6.7	6.8
19	---	---	---	---	---	---	6.9	6.8	6.9	6.8	6.7	6.7
20	---	---	---	---	---	---	6.9	6.8	6.8	6.7	6.7	6.7
21	---	---	---	---	---	---	6.9	6.8	6.9	6.7	6.6	6.6
22	---	---	---	---	---	---	6.9	6.8	6.9	6.8	6.6	6.7
23	---	---	---	---	---	---	---	---	---	6.7	6.5	6.6
24	---	---	---	---	---	---	---	---	---	6.7	6.6	6.6
25	---	---	---	---	---	---	7.1	6.9	7.1	7.0	6.8	6.9
26	---	---	---	---	---	---	7.1	7.0	7.1	7.2	7.1	7.1
27	---	---	---	---	---	---	7.1	7.1	7.1	7.2	7.2	7.2
28	---	---	---	---	---	---	7.1	7.1	7.1	7.4	7.2	7.3
29	---	---	---	---	---	---	7.1	7.1	7.1	7.4	6.9	7.2
30	---	---	---	---	---	---	7.1	7.0	7.1	6.9	6.8	6.9
31	---	---	---	---	---	---	---	---	---	6.9	6.8	6.8
MONTH	---	---	---	---	---	---	7.1	6.0	7.0	7.4	6.4	6.8

01183750 CONNECTICUT RIVER AT AGAWAM, MASS.--Continued

PH (UNITS), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974.--Continued

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.8	6.8	6.8	6.8	6.7	6.7	7.0	6.7	6.9	7.0	6.8	6.9
2	6.8	6.8	6.8	7.2	6.6	6.9	7.1	6.6	6.8	6.9	6.6	6.8
3	6.9	6.8	6.8	7.1	6.9	7.0	7.1	6.7	6.8	6.7	6.6	6.7
4	6.8	6.7	6.8	7.2	6.9	7.1	7.1	6.7	6.8	7.0	6.7	6.9
5	6.8	6.7	6.8	7.1	6.7	6.9	6.8	6.6	6.7	7.0	6.9	7.0
6	6.7	6.6	6.7	6.8	6.6	6.7	7.1	6.6	6.8	7.0	6.9	7.0
7	6.7	6.6	6.6	6.8	6.6	6.7	7.1	6.7	6.8	7.1	7.0	7.0
8	6.7	6.6	6.6	7.0	6.7	6.9	7.0	6.5	6.7	7.0	6.8	7.0
9	6.7	6.5	6.6	7.1	6.8	6.9	6.9	6.5	6.7	6.9	6.7	6.8
10	6.6	6.4	6.5	7.1	6.8	6.9	7.0	6.6	6.7	7.0	6.7	6.8
11	6.6	6.5	6.6	7.0	6.8	6.9	7.8	6.4	6.8	6.8	6.6	6.7
12	6.7	6.6	6.6	7.2	6.8	7.0	7.9	6.5	6.9	6.8	6.6	6.7
13	6.7	6.5	6.6	7.2	6.9	7.0	7.7	6.5	6.9	6.9	6.6	6.8
14	6.8	6.5	6.7	6.9	6.8	6.9	8.0	6.6	7.2	6.9	6.7	6.7
15	6.8	6.6	6.9	7.0	6.7	6.8	8.4	7.1	7.7	6.9	6.6	6.7
16	---	---	---	6.7	6.6	6.7	9.0	6.9	7.6	6.9	6.6	6.7
17	---	---	---	---	---	---	7.2	6.9	7.0	6.9	6.7	6.8
18	---	---	---	---	---	---	7.2	6.7	6.9	7.0	6.6	6.8
19	---	---	---	---	---	---	7.3	6.7	6.9	6.8	6.5	6.6
20	---	---	---	---	---	---	7.3	6.7	7.0	6.8	6.5	6.6
21	---	---	---	---	---	---	7.7	6.8	7.1	6.6	6.5	6.5
22	---	---	---	---	---	---	7.8	6.8	7.2	6.8	6.5	6.6
23	---	---	---	---	---	---	7.0	6.8	6.9	6.8	6.6	6.7
24	6.9	6.8	6.9	---	---	---	7.1	6.8	6.9	6.8	6.7	6.8
25	6.9	6.8	6.8	---	---	---	7.8	6.8	7.1	7.0	6.8	6.9
26	6.8	6.7	6.8	6.9	6.7	6.8	7.2	6.9	7.0	6.9	6.8	6.9
27	6.8	6.7	6.7	6.7	6.6	6.6	7.0	6.8	6.9	7.0	6.8	6.9
28	6.8	6.7	6.7	---	---	---	7.1	6.9	7.0	6.9	6.6	6.8
29	6.8	6.7	6.8	---	---	---	6.9	6.7	6.8	6.6	6.5	6.6
30	7.0	6.7	6.8	---	---	---	6.8	6.7	6.8	6.7	6.6	6.7
31	---	---	---	---	---	---	7.0	6.7	6.9	---	---	---
MONTH	---	---	---	---	---	---	9.0	6.4	6.9	7.1	6.5	6.8
YEAR	9.0	6.0	6.9									

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.8	6.3	6.6	7.8	7.4	7.5	10.8	10.0	10.4	13.0	12.5	12.7
2	6.9	6.4	6.7	8.4	7.8	8.0	---	---	---	12.9	12.5	12.7
3	7.5	6.8	7.1	9.0	7.8	8.4	---	---	---	13.0	12.3	12.7
4	7.6	6.8	7.3	---	---	---	---	---	---	12.4	11.3	11.9
5	7.5	6.7	7.1	---	---	---	---	---	---	12.5	11.5	12.0
6	8.1	7.1	7.5	---	---	---	9.8	8.2	9.2	14.2	11.9	12.8
7	7.5	7.3	7.4	---	---	---	10.5	9.3	9.9	13.0	10.8	11.8
8	7.9	7.3	7.5	---	---	---	10.8	7.9	8.3	12.8	10.5	11.6
9	8.2	7.5	7.7	---	---	---	8.7	8.1	8.6	---	---	---
10	8.2	7.6	7.7	---	---	---	9.3	8.2	8.7	12.3	11.7	11.9
11	7.9	7.6	7.8	---	---	---	9.1	8.3	8.8	11.8	11.3	11.5
12	9.4	7.7	8.4	---	---	---	9.7	9.2	9.4	12.5	11.3	11.9
13	9.1	7.8	8.6	---	---	---	10.6	8.5	9.8	---	---	---
14	9.0	7.9	8.3	---	---	---	10.7	8.6	10.3	---	---	---
15	---	---	---	---	---	---	10.1	9.4	9.8	---	---	---
16	---	---	---	8.8	8.3	8.5	11.7	10.4	11.2	---	---	---
17	---	---	---	9.3	8.4	8.8	---	---	---	---	---	---
18	---	---	---	10.1	9.4	10.0	---	---	---	---	---	---
19	---	---	---	10.4	9.9	10.2	---	---	---	---	---	---
20	---	---	---	10.3	10.0	10.1	11.7	11.4	11.6	---	---	---
21	---	---	---	10.6	8.6	10.0	12.2	11.5	11.8	---	---	---
22	---	---	---	10.8	10.6	10.7	12.3	11.1	11.8	---	---	---
23	---	---	---	10.8	9.1	10.3	12.2	11.0	11.5	---	---	---
24	---	---	---	10.9	9.1	10.1	12.9	11.6	12.1	---	---	---
25	8.1	7.7	7.9	11.1	10.2	10.7	12.8	11.5	11.8	---	---	---
26	7.9	7.3	7.6	11.2	9.4	10.5	13.8	12.3	13.2	---	---	---
27	---	---	---	11.3	10.0	10.9	13.4	12.3	12.9	---	---	---
28	7.2	6.4	6.8	11.5	10.7	11.3	13.7	12.8	13.4	12.3	11.9	12.1
29	7.2	6.7	7.0	11.7	10.1	10.7	13.8	12.9	13.3	12.1	11.7	11.9
30	7.0	6.5	6.8	10.3	10.0	10.2	12.9	12.4	12.6	12.2	11.6	12.0
31	7.6	7.0	7.4	---	---	---	12.8	12.5	12.7	11.8	11.4	11.6
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

01183750 CONNECTICUT RIVER AT AGAWAM, MASS.--Continued

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974.--Continued

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	12.5	11.6	11.9	---	---	---	12.5	12.1	12.3	10.5	10.2	10.3
2	13.8	10.9	11.8	---	---	---	12.6	11.7	12.0	10.5	10.0	10.3
3	---	---	---	---	---	---	12.3	11.3	11.9	11.3	10.1	10.3
4	---	---	---	---	---	---	11.3	10.8	11.0	10.8	10.5	10.6
5	---	---	---	---	---	---	11.1	10.9	11.0	11.0	10.6	10.8
6	---	---	---	11.6	11.2	11.4	11.9	11.1	11.4	---	---	---
7	---	---	---	12.4	11.6	12.1	12.8	12.0	12.4	---	---	---
8	---	---	---	11.9	11.2	11.5	12.5	11.6	12.2	---	---	---
9	---	---	---	12.2	11.5	11.9	13.0	11.4	12.2	---	---	---
10	---	---	---	12.5	11.9	12.2	13.0	11.4	12.1	10.5	10.3	10.4
11	---	---	---	12.4	11.6	11.9	13.3	12.2	12.8	10.5	10.2	10.4
12	---	---	---	11.9	11.0	11.5	12.3	11.4	12.0	10.2	10.0	10.1
13	---	---	---	12.0	10.9	11.5	11.6	11.2	11.3	10.4	9.9	10.2
14	---	---	---	11.9	10.3	11.2	11.8	11.5	11.7	10.4	10.1	10.3
15	---	---	---	12.8	11.0	11.6	11.7	10.9	11.2	10.2	9.7	10.0
16	---	---	---	12.3	10.9	11.7	11.5	11.0	11.3	9.9	9.4	9.6
17	---	---	---	12.0	10.9	11.4	11.7	11.2	11.4	9.8	9.1	9.4
18	---	---	---	---	---	---	11.7	11.1	11.3	9.3	9.0	9.1
19	---	---	---	---	---	---	11.2	10.7	10.9	8.9	8.7	8.8
20	---	---	---	---	---	---	11.0	10.6	10.8	8.8	8.5	8.6
21	---	---	---	---	---	---	11.4	10.7	10.9	8.7	8.3	8.5
22	---	---	---	---	---	---	10.7	10.6	10.7	9.0	8.6	8.8
23	---	---	---	---	---	---	---	---	---	8.8	8.4	8.5
24	---	---	---	---	---	---	---	---	---	8.7	8.5	8.6
25	---	---	---	---	---	---	11.2	11.0	11.1	8.9	8.8	8.8
26	---	---	---	---	---	---	11.4	10.9	11.2	9.1	8.8	9.0
27	---	---	---	---	---	---	11.3	11.0	11.1	9.3	9.1	9.2
28	---	---	---	---	---	---	11.1	10.8	10.9	9.7	9.3	9.5
29	---	---	---	---	---	---	11.1	10.7	10.8	9.7	9.6	9.6
30	---	---	---	---	---	---	10.6	10.3	10.4	10.1	9.8	9.9
31	---	---	---	---	---	---	---	---	---	9.6	9.4	9.5
MONTH	---	---	---	---	---	---	13.3	10.3	11.4	11.3	8.3	9.6

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	9.5	9.3	9.4	8.8	7.9	8.3	7.5	6.8	7.3	---	---	---
2	9.1	9.0	9.0	8.3	6.7	7.5	7.6	6.9	7.2	---	---	---
3	8.8	8.6	8.7	7.1	6.7	6.9	7.6	7.2	7.4	---	---	---
4	8.6	8.3	8.5	7.3	6.5	6.9	7.6	6.8	7.3	---	---	---
5	8.4	8.2	8.3	6.9	6.6	6.8	7.6	6.7	7.0	---	---	---
6	9.3	7.9	8.3	7.9	6.9	7.3	7.6	6.7	7.1	7.7	7.2	7.5
7	9.3	8.9	9.1	8.0	7.3	7.7	7.6	7.2	7.3	8.5	6.8	7.8
8	9.3	8.7	9.1	7.6	6.8	7.2	7.7	7.1	7.4	7.1	6.5	6.9
9	9.1	7.4	8.6	7.4	6.6	7.0	7.8	7.3	7.5	7.4	6.9	7.1
10	9.0	7.5	8.3	7.2	6.3	6.8	7.8	7.2	7.5	8.3	6.3	7.1
11	8.4	7.4	7.8	7.4	7.0	7.3	8.0	7.2	7.6	8.0	7.0	7.4
12	7.9	7.2	7.6	7.8	6.9	7.3	8.2	7.5	7.8	7.2	6.7	6.9
13	7.9	6.9	7.5	7.7	7.4	7.5	8.3	7.5	7.9	6.6	6.1	6.4
14	7.4	6.9	7.3	7.6	7.1	7.4	8.5	7.9	8.3	6.1	5.7	5.9
15	7.8	7.1	7.4	7.8	7.2	7.4	8.3	7.8	8.1	6.4	5.8	6.1
16	---	---	---	7.3	7.2	7.2	8.3	7.5	8.0	7.0	6.3	6.6
17	---	---	---	---	---	---	8.3	7.8	8.1	7.4	6.6	7.0
18	---	---	---	---	---	---	8.2	7.7	7.9	7.4	6.7	7.1
19	---	---	---	---	---	---	8.3	7.5	7.9	7.3	6.3	7.1
20	---	---	---	---	---	---	8.2	7.7	7.9	6.7	6.3	6.4
21	---	---	---	---	---	---	8.2	7.5	8.0	6.7	6.5	6.6
22	---	---	---	---	---	---	8.2	7.7	7.9	7.3	6.6	6.9
23	---	---	---	---	---	---	8.2	7.9	8.1	7.6	6.8	7.2
24	7.4	6.7	7.1	---	---	---	8.3	7.7	8.1	7.2	6.8	6.9
25	7.8	7.3	7.5	---	---	---	---	---	---	7.5	7.0	7.2
26	7.6	7.3	7.4	6.8	6.0	6.3	---	---	---	7.9	7.6	7.7
27	7.8	7.7	7.7	6.9	6.7	6.8	---	---	---	8.0	7.3	7.7
28	8.5	7.8	8.2	---	---	---	---	---	---	7.8	6.9	7.2
29	8.7	8.2	8.5	---	---	---	---	---	---	6.9	6.5	6.7
30	8.9	7.9	8.4	---	---	---	---	---	---	6.8	6.5	6.6
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	8.5	5.7	7.0
YEAR	14.2	5.7	9.3									

01183750 CONNECTICUT RIVER AT AGAWAM, MASS.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	18.5	16.5	17.5	11.5	11.0	11.5	6.5	5.0	5.5	2.0	1.5	2.0
2	18.0	16.5	17.0	11.5	10.5	11.0	5.5	4.0	4.5	1.5	1.0	1.5
3	18.0	17.0	17.5	11.5	10.0	10.5	4.5	3.5	4.0	1.5	1.0	1.5
4	18.5	17.0	17.5	10.0	9.0	9.5	4.5	3.5	4.0	2.5	1.5	2.0
5	18.5	17.5	18.0	9.0	8.0	8.5	5.5	4.0	4.5	2.0	1.0	1.5
6	18.0	16.5	17.5	8.5	7.5	8.0	7.5	5.0	6.5	1.5	0.5	1.0
7	17.0	16.0	16.5	7.5	7.0	7.0	7.0	5.0	6.0	2.0	1.0	1.5
8	16.5	15.5	16.0	7.5	6.5	7.0	5.5	4.0	5.0	2.0	0.5	1.0
9	16.5	15.0	16.0	7.5	6.5	7.0	4.5	4.0	4.0	1.0	0.0	0.5
10	16.5	15.5	15.5	6.5	5.5	6.0	4.5	4.0	4.5	0.5	0.0	0.5
11	16.0	14.5	15.5	6.5	5.0	5.5	4.5	3.0	4.0	1.5	0.5	1.0
12	16.5	14.5	16.0	---	---	---	4.0	3.0	3.5	1.0	0.0	0.5
13	16.0	15.0	15.5	---	---	---	4.0	3.0	3.5	---	---	---
14	16.5	14.0	16.0	---	---	---	4.5	3.5	4.0	---	---	---
15	---	---	---	---	---	---	4.5	4.0	4.0	---	---	---
16	---	---	---	8.5	8.0	8.5	4.0	2.0	3.0	---	---	---
17	---	---	---	8.0	6.5	7.5	2.0	0.0	0.5	---	---	---
18	---	---	---	6.5	5.5	6.0	0.5	0.0	0.0	---	---	---
19	---	---	---	6.5	5.5	6.0	0.5	0.0	0.0	---	---	---
20	---	---	---	6.0	5.5	5.5	1.0	0.0	0.5	---	---	---
21	---	---	---	6.0	5.0	5.5	1.5	0.5	1.0	---	---	---
22	---	---	---	6.5	5.5	6.0	1.0	0.0	0.5	---	---	---
23	---	---	---	6.0	5.5	6.0	1.0	0.0	0.5	---	---	---
24	---	---	---	6.5	5.5	6.0	1.0	0.5	0.5	---	---	---
25	13.5	12.5	13.0	6.5	6.0	6.0	0.5	0.0	0.0	---	---	---
26	13.5	12.5	13.0	7.0	5.5	6.5	1.5	0.5	1.0	---	---	---
27	---	---	---	7.0	6.0	6.5	2.0	1.5	2.0	---	---	---
28	12.5	12.0	12.5	7.0	6.5	6.5	3.5	1.5	2.5	2.0	2.0	2.0
29	12.0	11.5	11.5	7.0	6.5	6.5	2.5	1.0	1.5	2.5	2.0	2.5
30	12.5	11.5	12.0	7.0	6.0	6.5	3.0	1.5	2.5	3.0	2.0	2.5
31	12.0	11.0	11.5	---	---	---	2.0	2.0	2.0	3.0	2.5	3.0
MONTH	---	---	---	11.5	5.0	7.0	7.5	0.0	3.0	---	---	---

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	3.0	2.0	2.5	---	---	---	5.0	4.5	5.0	12.5	10.5	11.5
2	2.0	0.0	0.5	---	---	---	5.5	5.0	5.5	12.0	11.5	12.0
3	---	---	---	---	---	---	7.0	4.5	5.5	12.0	10.5	11.5
4	---	---	---	---	---	---	8.5	7.0	7.5	11.0	10.0	10.5
5	---	---	---	---	---	---	8.0	7.0	7.5	10.0	9.5	10.0
6	---	---	---	4.5	4.0	4.5	7.0	5.0	6.0	---	---	---
7	---	---	---	4.0	3.5	4.0	5.5	4.5	5.0	---	---	---
8	---	---	---	4.0	3.5	4.0	6.0	5.0	5.0	---	---	---
9	---	---	---	3.5	2.5	3.0	5.5	3.0	4.5	---	---	---
10	---	---	---	3.0	2.5	2.5	4.5	3.0	4.0	11.0	10.5	10.5
11	---	---	---	3.5	2.0	3.0	5.5	3.5	4.5	11.5	10.5	11.0
12	---	---	---	4.0	2.5	3.0	6.5	5.0	5.5	11.5	10.5	11.0
13	---	---	---	3.5	2.0	3.0	6.5	6.0	6.0	11.5	10.5	11.0
14	---	---	---	3.5	1.5	2.5	6.0	5.0	5.5	11.5	10.0	10.5
15	---	---	---	4.0	2.0	3.0	8.5	5.5	7.0	13.5	11.0	12.0
16	---	---	---	4.5	2.5	3.5	7.5	6.5	7.0	14.5	13.0	14.0
17	---	---	---	4.0	2.5	3.5	8.0	6.0	7.0	15.5	14.5	15.0
18	---	---	---	---	---	---	9.5	6.5	8.0	16.5	15.5	16.0
19	---	---	---	---	---	---	9.0	8.0	8.5	17.0	16.0	16.5
20	---	---	---	---	---	---	9.0	7.5	8.5	17.0	16.0	16.5
21	---	---	---	---	---	---	9.0	8.0	8.5	17.5	16.0	16.5
22	---	---	---	---	---	---	9.5	9.0	9.5	17.0	15.5	16.5
23	---	---	---	---	---	---	---	---	---	17.0	15.5	16.0
24	---	---	---	---	---	---	---	---	---	15.5	15.0	15.0
25	---	---	---	---	---	---	9.5	9.0	9.0	15.0	14.0	14.5
26	---	---	---	---	---	---	9.0	8.0	8.5	14.0	13.5	13.5
27	---	---	---	---	---	---	9.0	8.0	8.5	13.5	12.5	13.0
28	---	---	---	---	---	---	9.5	8.5	9.0	12.5	12.0	12.0
29	---	---	---	---	---	---	10.5	9.0	10.0	12.5	12.0	12.5
30	---	---	---	---	---	---	11.0	10.0	10.5	13.5	12.0	13.0
31	---	---	---	---	---	---	---	---	---	14.0	13.0	13.5
MONTH	---	---	---	---	---	---	11.0	3.0	7.0	17.5	9.5	13.0

01183750 CONNECTICUT RIVER AT AGAWAM, MASS.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974.--Continued

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	14.5	13.5	14.0	23.0	21.0	22.0	25.5	24.5	25.5	23.5	22.0	23.0
2	15.0	14.0	14.5	23.5	22.0	22.5	26.0	24.0	25.0	22.5	21.0	22.5
3	16.0	14.0	15.5	24.0	22.5	23.5	26.0	25.0	25.5	22.0	20.5	21.5
4	17.0	15.5	16.5	24.5	22.5	23.5	27.0	25.0	25.5	21.0	19.0	20.0
5	18.0	16.0	17.0	25.0	24.0	24.5	27.0	25.0	26.0	20.5	19.0	19.5
6	19.0	17.0	18.5	24.5	22.5	23.5	27.0	25.0	26.0	19.5	19.0	19.5
7	19.5	17.5	18.5	23.5	22.0	23.0	25.5	24.5	25.5	19.5	18.5	19.0
8	20.0	18.5	19.0	25.0	23.0	24.0	26.0	24.0	25.0	20.0	18.5	19.0
9	21.5	19.0	20.0	25.5	24.5	25.0	25.0	24.0	24.5	21.5	19.0	20.0
10	23.5	20.5	22.0	26.5	25.0	26.0	25.5	23.5	24.0	21.5	20.0	21.0
11	24.0	22.0	23.0	26.0	24.5	25.0	27.5	23.0	25.0	22.0	20.5	21.5
12	23.0	21.0	22.0	25.0	23.5	24.0	26.5	23.0	25.0	23.0	21.5	22.0
13	22.5	20.5	21.5	25.0	23.5	24.0	27.5	24.0	26.0	23.5	22.0	22.5
14	22.0	20.5	21.5	26.0	23.5	24.5	27.0	25.5	26.5	23.5	22.0	22.5
15	22.5	21.0	21.5	26.5	24.5	25.5	27.5	25.5	26.5	23.0	21.0	22.0
16	---	---	---	25.5	25.5	25.5	27.5	25.0	26.0	22.5	20.5	21.5
17	---	---	---	---	---	---	26.0	25.0	26.0	21.5	20.0	21.0
18	---	---	---	---	---	---	27.0	25.0	26.0	22.0	20.0	21.0
19	---	---	---	---	---	---	27.5	25.0	26.0	21.5	20.0	20.5
20	---	---	---	---	---	---	27.0	25.0	26.0	21.5	20.0	21.0
21	---	---	---	---	---	---	27.5	25.5	26.5	21.5	20.5	21.0
22	---	---	---	---	---	---	27.0	25.5	26.5	21.0	19.5	20.0
23	---	---	---	---	---	---	26.5	25.5	26.0	19.5	18.5	19.0
24	22.5	21.5	22.0	---	---	---	27.0	25.0	26.0	18.5	17.0	18.0
25	21.5	20.5	21.0	---	---	---	27.5	25.0	26.5	17.0	16.5	17.0
26	20.5	19.5	20.0	24.5	23.0	23.5	26.5	24.5	25.5	17.0	16.0	16.5
27	19.5	19.0	19.0	23.0	23.0	23.0	25.0	24.0	24.5	17.5	16.0	16.5
28	21.5	19.0	20.0	---	---	---	25.5	24.5	25.0	18.0	16.5	17.5
29	21.0	19.5	20.0	---	---	---	25.0	24.0	24.5	18.5	17.5	18.0
30	22.0	20.0	21.0	---	---	---	23.5	22.5	23.0	17.5	16.5	17.0
31	---	---	---	---	---	---	23.5	22.0	22.5	---	---	---
MONTH	---	---	---	---	---	---	27.5	22.0	25.5	23.5	16.0	20.0
YEAR	27.5	0.0	13.0									

01184000 CONNECTICUT RIVER AT THOMPSONVILLE, CONN.
(Radiochemical program)

LOCATION.--Lat 41°59'14", long 72°36'21", Hartford County, at gaging station on canal of Connecticut Light and Power Co., 1 mi (2 km) downstream from Thompsonville, 3 mi (5 km) downstream from Massachusetts-Connecticut State line, 4.5 mi (7.7 km) downstream from multiple-parameter monitor at Agawam, Mass., and at mile 68.2 (kilometre 109.7).

DRAINAGE AREA.--9,661 mi² (25,022 km²).

PERIOD OF RECORD.--Chemical analyses: October 1955 to September 1956, January 1966 to current year.
Water temperatures: October 1955 to September 1956.

REMARKS.--Additional chemical analyses for this station in radiochemical and pesticide tables.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	TOTAL CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	SUSPENDED MAGNESIUM (MG) (MG/L)	TOTAL MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)
OCT.											
12...	1000	5610	5.0	14	--	2.8	--	--	7.0	1.7	40
NOV.											
08...	0850	6620	5.8	11	--	2.0	--	--	--	--	32
DEC.											
13...	0845	18200	5.0	8.0	--	1.5	--	--	--	--	20
JAN.											
17...	1020	14400	6.0	10	--	1.7	--	--	8.3	2.1	25
FEB.											
14...	1020	16100	5.7	10	--	1.8	--	--	6.9	1.1	--
MAR.											
14...	1025	18400	5.2	8.5	--	1.5	--	--	4.5	1.0	21
APR.											
19...	1030	52200	3.9	8.0	19	1.0	.5	1.5	3.4	1.1	21
MAY											
16...	0945	49500	4.6	9.0	9.0	1.0	.4	1.4	3.6	.8	19
JUNE											
13...	1000	9400	5.0	11	11	1.6	.1	1.7	6.0	1.2	26
JULY											
17...	0920	7820	4.5	11	--	1.5	--	--	6.0	1.3	33
AUG.											
14...	0915	3110	2.1	15	--	3.2	--	--	9.6	1.9	43
SEP.											
11...	0910	5960	4.9	12	--	2.4	--	--	7.5	1.2	28

DATE	CARBONATE (CO3) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED SULFIDE (S) (MG/L)	TOTAL SULFIDE (S) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL HYDROLYZABLE PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	TOTAL ORGANIC PHOSPHORUS (P) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)
OCT.											
12...	0	9.0	13	--	--	.4	--	--	--	--	.18
NOV.											
08...	0	9.5	11	--	--	--	.20	.17	--	--	.20
DEC.											
13...	0	6.3	11	.0	--	--	.04	.01	--	--	.04
JAN.											
17...	0	10	12	.0	--	.0	.05	.02	--	--	.06
FEB.											
14...	--	12	12	.0	--	.1	.04	.03	--	--	.05
MAR.											
14...	0	7.0	10	.0	--	.2	.05	.02	--	--	.05
APR.											
19...	0	5.4	8.3	--	<.5	.1	.05	--	.02	.00	.06
MAY											
16...	0	4.6	8.5	--	.0	.1	.05	--	.01	.00	.06
JUNE											
13...	0	8.5	11	--	.0	.2	.08	--	.03	.00	.08
JULY											
17...	0	8.7	12	--	--	.2	--	--	--	--	.09
AUG.											
14...	0	14	15	--	--	.1	--	--	--	--	.12
SEP.											
11...	0	16	11	--	--	--	--	--	--	--	.12

01184000 CONNECTICUT RIVER AT THOMPSONVILLE, CONN.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974.--Continued

DATE	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L).	TOTAL NITRITE (N) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)
OCT. 12...	.06	.01	.77	.78	.17	.23	1.0	46	14	5.1	33
NOV. 08...	.21	.02	.40	.42	.24	.45	.87	36	9	10	26
DEC. 13...	.21	.01	.36	.37	.18	.39	.76	26	10	5.1	16
JAN. 17...	.12	.01	.49	.50	.18	.30	.80	32	11	6.3	21
FEB. 14...	.18	.01	.51	.52	.37	.55	1.1	32	--	--	--
MAR. 14...	.27	.02	.40	.42	.30	.57	.99	27	10	5.3	17
APR. 19...	.17	.01	.27	.28	.15	.32	.60	24	7	5.3	17
MAY 16...	.06	.01	.24	.25	.27	.33	.58	27	11	2.4	16
JUNE 13...	.11	.03	.37	.40	.40	.51	.91	34	13	8.3	21
JULY 17...	.38	--	--	.35	.12	.50	.85	34	7	4.2	27
AUG. 14...	.46	--	--	.19	.48	.94	1.1	51	15	1.7	35
SEP. 11...	.44	--	--	.33	.26	.70	1.0	40	17	3.6	23

DATE	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER DAY)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	OIL AND GREASE (MG/L)	CYANIDE (CN) (MG/L)	PHENOLS (UG/L)	TUR-BID-ITY (JTU)	COLOR (PLAT-INUM-COBALT UNITS)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)
OCT. 12...	88	73	1330	.12	0	--	0	1	9	--	--
NOV. 08...	--	--	--	--	--	--	2	2	17	.0	16
DEC. 13...	75	--	3690	.10	--	.01	8	1	17	.0	14
JAN. 17...	80	63	3110	.11	--	.01	3	4	15	.0	20
FEB. 14...	73	--	3170	.10	--	.00	2	1	6	.0	10
MAR. 14...	52	48	2580	.07	--	.00	0	3	17	.0	11
APR. 19...	52	42	7330	.07	--	.00	0	5	20	.0	15
MAY 16...	51	46	6820	.07	0	.00	0	4	20	.0	12
JUNE 13...	68	59	1730	.09	0	.01	1	3	8	.0	13
JULY 17...	63	62	1330	.09	0	.01	--	1	6	.0	--
AUG. 14...	85	82	714	.12	0	.01	--	3	4	.1	--
SEP. 11...	79	69	1270	.11	1	.01	--	1	2	.0	--

CONNECTICUT RIVER BASIN

01184000 CONNECTICUT RIVER AT THOMPSONVILLE, CONN.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974.--Continued

DATE	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	AIR TEMPERATURE (DEG C)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	DISSOLVED ORGANIC CARBON (C) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT. 12...	131	7.1	14.0	14.0	6.6	64	320000	22000	37	7.5	7.5
NOV. 08...	114	6.7	7.0	7.0	9.8	80	42000	10000	2800	7.0	10
DEC. 13...	91	6.8	3.0	3.0	9.8	73	5500	2200	1600	.5	.5
JAN. 17...	114	6.8	-8.0	.5	13.4	93	6800	3300	2000	4.0	4.5
FEB. 14...	118	6.9	1.5	1.5	11.8	84	5400	2600	2600	--	--
MAR. 14...	95	6.8	1.5	1.0	12.6	89	18000	1500	800	--	--
APR. 19...	79	6.8	11.5	6.5	11.2	89	13000	500	320	--	3.0
MAY 16...	71	7.1	25.0	12.0	10.2	95	18000	700	200	--	--
24...	92	7.2	--	15.0	--	--	--	--	--	--	--
JUNE 13...	100	6.7	24.5	20.5	6.5	72	120000	14000	6300	--	3.4
JULY 17...	117	7.1	23.5	23.5	7.8	91	240000	24000	600	--	3.7
AUG. 14...	152	7.6	27.0	25.5	7.6	92	74000	3300	40	--	5.9
27...	--	--	--	--	--	--	--	--	--	--	--
SEP. 11...	120	7.1	18.0	20.0	5.2	57	510000	80000	750	--	6.1

DATE	CHLOROPHYLL A (UG/L)	CHLOROPHYLL B (UG/L)	TOTAL PHYTOPLANKTON (CELLS PER ML)	UNCORRECTED PERIPHYTON CHLOROPHYLL A MG/SQ M	UNCORRECTED PERIPHYTON CHLOROPHYLL B MG/SQ M	SODIUM ADSORPTION RATIO	PERCENT SODIUM	TOTAL RESIDUE (MG/L)	TOTAL FILTRABLE RESIDUE (MG/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)
OCT. 12...	5.2	--	--	--	--	.4	24	--	--	--
NOV. 08...	--	--	--	--	--	--	--	--	--	--
DEC. 13...	--	--	--	--	--	--	--	--	--	--
JAN. 17...	.3	--	--	--	--	.6	33	--	--	--
FEB. 14...	--	--	--	--	--	.5	31	--	--	--
MAR. 14...	--	--	--	--	--	.4	25	--	58	12
APR. 19...	--	--	--	--	--	.3	23	--	--	--
MAY 16...	2.4	5.8	--	--	--	.3	22	--	--	36
24...	--	--	840	--	--	--	--	--	--	--
JUNE 13...	4.5	7.2	5600	--	--	.4	27	--	--	5
JULY 17...	5.7	16	15000	--	--	.5	27	86	--	--
AUG. 14...	26	50	59000	--	--	.6	28	111	--	--
27...	--	--	--	2.0	.9	--	--	--	--	--
SEP. 11...	12	2.0	14000	--	--	.5	28	87	--	--

01184000 CONNECTICUT RIVER AT THOMPSONVILLE, CONN.--Continued

CHEMICAL ANALYSES OF COMPOSITED SAMPLES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	DIS-SOLVED ALUM-INUM (AL) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	SUS-PENDED ARSENIC (AS) (UG/L)	TOTAL ARSENIC (AS) (UG/L)	DIS-SOLVED BARIUM (BA) (UG/L)	DIS-SOLVED BERYL-LIUM (BE) (UG/L)	DIS-SOLVED BISMUTH (BI) (UG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	SUS-PENDED CAD-MIUM (CD) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)
OCT. 12...	75	--	--	--	18	0	<2	15	--	--	--	--
JAN. 17...	--	0	--	0	--	--	--	--	2	--	<10	0
JAN-JUNE 1974 COMPOSITE	80	--	--	--	14	0	<2	18	2	--	--	2
APR. 19...	--	2	--	<1	--	--	--	--	2	--	<10	0
AUG. 14...	--	1	0	1	--	--	--	--	2	0	<10	0

DATE	SUS-PENDED CHRO-MIUM (CR) (UG/L)	HEXA-VALENT CHRO-MIUM (CR6) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	SUS-PENDED COBALT (CO) (UG/L)	TOTAL COBALT (CO) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	SUS-PENDED COPPER (CU) (UG/L)	TOTAL COPPER (CU) (UG/L)	DIS-SOLVED GALLIUM (GA) (UG/L)	DIS-SOLVED GER-MANIUM (GE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)
OCT. 12...	--	0	--	--	--	--	10	--	--	0	<2	170
JAN. 17...	--	--	0	0	--	1	--	--	--	--	--	130
JAN-JUNE 1974 COMPOSITE	--	--	--	<2	--	--	13	--	--	0	<2	180
FEB. 14...	--	--	--	--	--	--	--	--	--	--	--	160
MAR. 14...	--	--	--	--	--	--	--	--	--	--	--	130
APR. 19...	10	--	10	0	1	1	10	10	20	--	--	440
MAY 16...	--	--	--	--	--	--	--	--	--	--	--	90
JUNE 13...	--	--	--	--	--	--	--	--	--	--	--	150
JULY 17...	--	--	--	--	--	--	0	--	--	--	--	70
AUG. 14...	10	--	10	0	2	2	0	10	10	--	--	80
SEP. 11...	--	--	--	--	--	--	0	--	--	--	--	70

DATE	SUS-PENDED IRON (FE) (UG/L)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	SUS-PENDED LEAD (PB) (UG/L)	TOTAL LEAD (PB) (UG/L)	DIS-SOLVED LITHIUM (LI) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	SUS-PENDED MAN-GANESE (MN) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS-SOLVED MOLYB-DENUM (MO) (UG/L)
OCT. 12...	--	--	2	--	--	0	70	--	--	--	--	0
NOV. 08...	--	--	--	--	--	--	140	--	--	--	--	--
DEC. 11...	--	--	--	--	--	--	--	--	100	--	<.5	--
JAN. 17...	210	340	0	75	75	--	75	13	88	--	<.5	--
JAN-JUNE 1974 COMPOSITE	--	--	3	--	--	<3	60	--	--	<.5	--	0
FEB. 14...	--	--	--	--	--	--	60	--	--	--	--	--
MAR. 14...	--	--	--	--	--	--	50	--	--	--	--	--
APR. 19...	960	1400	3	0	3	--	20	50	70	<.5	<.5	--
MAY 16...	--	--	--	--	--	--	20	--	--	--	--	--
JUNE 13...	--	--	--	--	--	--	100	--	--	--	--	--
JULY 17...	--	--	--	--	--	--	20	--	--	--	--	--
AUG. 14...	320	400	1	11	12	--	20	130	150	<.5	<.5	--
SEP. 11...	--	--	--	--	--	--	50	--	--	--	--	--

01184000 CONNECTICUT RIVER AT THOMPSONVILLE, CONN.--Continued

CHEMICAL ANALYSES OF COMPOSITED SAMPLES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974.--Continued

DATE	DIS-SOLVED NICKEL (NI) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	SUS-PENDED SELE-NIUM (SE) (UG/L)	TOTAL SELE-NIUM (SE) (UG/L)	DIS-SOLVED SILVER (AG) (UG/L)	DIS-SOLVED STRON-TIUM (SR) (UG/L)	DIS-SOLVED TI-TANIUM (TI) (UG/L)	DIS-SOLVED VANA-DIUM (V) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DIS-SOLVED ZIR-CONIUM (ZR) (UG/L)
OCT.											
12...	6	--	--	--	0	87	<2	1.0	30	--	<3
JAN.											
17...	--	0	1	1	--	--	--	--	30	390	--
JAN-JUNE 1974											
COMPOSITE	6	--	--	--	0	50	5	2.0	60	--	<2
APR.											
19...	--	0	2	2	--	--	--	--	20	30	--
JULY											
17...	--	--	--	--	--	--	--	--	10	--	--
AUG.											
14...	--	<2	--	<2	--	--	--	--	10	30	--
SEP.											
11...	--	--	--	--	--	--	--	--	10	--	--

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974.--Continued

DATE	TOTAL ARSENIC IN BOTTOM DE-POSITS (UG/G)	TOTAL CADMIUM IN BOTTOM DE-POSITS (UG/G)	TOTAL CHRO-MIUM IN BOTTOM DE-POSITS (UG/G)	TOTAL COBALT IN BOTTOM DE-POSITS (UG/G)	TOTAL COPPER IN BOTTOM DE-POSITS (UG/G)	TOTAL IRON IN BOTTOM DE-POSITS (UG/G)	TOTAL LEAD IN BOTTOM DE-POSITS (UG/G)	TOTAL MANGA-NESE IN BOTTOM DE-POSITS (UG/G)	TOTAL MERCURY IN BOTTOM DE-POSITS (UG/G)	TOTAL NICKEL IN BOTTOM DE-POSITS (UG/G)
OCT.										
12...	1	0	11	5	30	8100	<5	330	.0	15

DATE	TOTAL SELE-NIUM IN BOTTOM DE-POSITS (UG/G)	TOTAL STRON-TIUM IN BOTTOM DE-POSITS (UG/G)	TOTAL ZINC IN BOTTOM DE-POSITS (UG/G)	TOTAL PHOS-PHORUS IN BOT-TOM DE-POSITS (MG/KG)	TOTAL AMMONIA NITRO-GEN IN BOTTOM DEP. (MG/KG)	TOTAL NITRITE PLUS NITRATE IN BOT. DEP. (MG/KG)	TOTAL KJEL. NITRO-GEN IN BOTTOM DEP. (MG/KG)	IN-ORGANIC CARBON IN BED MA-TERIAL (G/KG)	ORGANIC CARBON IN BED MA-TERIAL (C) (G/KG)
OCT.									
12...	13	9	73	130	21	.4	140	.1	9.8

INSTANTANEOUS SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	SUS-PENDED SOLIDS (MG/L)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)	BED MAT. FALL DIAM. % FINER THAN .004 MM	BED MAT. FALL DIAM. % FINER THAN .062 MM	BED MAT. FALL DIAM. % FINER THAN 2.00 MM
OCT.							
12...	6	--	--	--	1	2	100
JAN.							
17...	--	81	7	272	--	--	--
FEB.							
14...	--	66	10	435	--	--	--
MAR.							
14...	--	58	41	2040	--	--	--
MAY							
24...	--	82	9	--	--	--	--
JUNE							
13...	--	83	9	228	--	--	--
JULY							
17...	--	95	10	211	--	--	--
AUG.							
14...	--	90	17	143	--	--	--
SEP.							
11...	--	95	7	113	--	--	--

01333300 HOOSIC RIVER BELOW WILLIAMSTOWN, MASS.

LOCATION.--Lat 42°44'28", long 73°12'47", Berkshire County, multiple-parameter monitor on right bank 0.3 mi (0.5 km) upstream from Massachusetts-Vermont State line, 2 mi (3 km) northwest of Williamstown, and 3.9 mi (6.3 km) downstream from gaging station on Hoosic River near Williamstown.

DRAINAGE AREA.--203 mi² (526 km²).

PERIOD OF RECORD.--Chemical analyses: November 1968 to current year (no monitor records during winter of water year 1973).
Water temperatures: November 1968 to current year (no monitor records during winter of water year 1973).

EXTREMES.--Current year:
Specific conductance: Maximum, 573 micromhos Feb. 20; minimum, 60 micromhos Apr. 5.
pH: Maximum, 8.9 Mar. 11; minimum, 6.9 Nov. 11-13, Dec. 9.
Dissolved oxygen: Maximum, 13.8 mg/l Dec. 17; minimum, 1.8 mg/l Aug. 12.
Water temperatures: Maximum, 24.0°C July 9, Aug. 21; minimum, freezing point on several days during winter period.

Period of record:
Specific conductance: Maximum, 573 micromhos Feb. 20, 1974; minimum, 59 micromhos Apr. 19, 1972.
pH: Maximum, 9.9 Dec. 24, 1970; minimum, 5.8 July 5, 1970.
Dissolved oxygen: Maximum, 16.5 mg/l Feb. 15, 1971; minimum, 0.0 mg/l July 24, 25, 27, 28, 1970.
Water temperatures: Maximum, 26.5°C July 27, 1970; minimum, freezing point on several days in water years 1970-71, 1973-74.

REMARKS.--Figures of daily discharge (computed on basis of records for gaging station near Williamstown and for Green River near Williamstown) are available in district office.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	TOTAL PHYTOPLANKTON (CELLS PER ML)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	CHLOROPHYLL A (UG/L)	TOTAL NITRITE (N) (MG/L)
OCT. 31...	1200	310	195	7.6	10.5	11.0	4500	340000	6600	7000	1.8	.00

DATE	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	SUSPENDED SOLIDS (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	OIL AND GREASE (MG/L)
OCT. 31...	.00	.29	.50	.79	.79	.27	410	137	10	10	.0	0

01333300 HOOSIC RIVER BELOW WILLIAMSTOWN, MASS.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	227	130	173	191	174	181	---	---	---
2	531	367	426	202	114	153	194	182	189	---	---	---
3	483	385	423	199	143	171	255	187	216	---	---	---
4	---	---	---	220	144	175	251	205	223	---	---	---
5	---	---	---	227	170	187	240	130	203	---	---	---
6	---	---	---	309	247	280	136	110	121	---	---	---
7	---	---	---	361	263	283	187	123	150	---	---	---
8	---	---	---	358	260	285	182	140	169	---	---	---
9	---	---	---	324	257	282	358	120	201	---	---	---
10	---	---	---	314	270	284	---	---	---	---	---	---
11	---	---	---	289	280	284	169	148	155	---	---	---
12	---	---	---	309	262	284	216	149	170	---	---	---
13	---	---	---	379	280	308	220	175	190	---	---	---
14	---	---	---	382	290	324	192	127	163	---	---	---
15	---	---	---	398	304	336	155	125	139	---	---	---
16	---	---	---	335	264	310	171	151	163	---	---	---
17	---	---	---	278	236	253	205	168	182	307	268	285
18	---	---	---	273	280	263	221	182	197	328	268	284
19	---	---	---	363	258	286	237	204	220	426	238	313
20	---	---	---	378	267	297	236	205	216	409	254	308
21	---	---	---	429	284	324	---	---	---	338	244	275
22	---	---	---	318	270	297	---	---	---	412	228	289
23	---	---	---	262	240	246	---	---	---	253	209	232
24	---	---	---	236	226	232	---	---	---	193	164	180
25	---	---	---	223	167	199	---	---	---	232	194	211
26	518	390	431	191	176	183	---	---	---	230	214	219
27	504	347	402	200	190	194	---	---	---	220	117	170
28	418	368	398	211	149	194	---	---	---	145	115	131
29	491	364	394	164	118	135	---	---	---	142	133	137
30	393	160	251	202	138	166	---	---	---	164	139	149
31	227	131	178	---	---	---	---	---	---	190	152	161
MONTH	---	---	---	429	114	246	---	---	---	---	---	---

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	189	151	164	---	---	---	242	211	220	184	108	126
2	190	171	178	---	---	---	208	165	188	137	121	129
3	187	177	182	---	---	---	189	118	159	148	137	142
4	228	181	195	---	---	---	114	63	90	159	148	154
5	---	---	---	---	---	---	85	60	74	160	142	152
6	---	---	---	---	---	---	91	80	87	171	148	156
7	---	---	---	152	117	131	100	91	96	154	131	138
8	---	---	---	145	120	129	128	97	111	158	135	145
9	---	---	---	169	140	151	154	125	140	176	154	164
10	---	---	---	168	154	159	213	147	174	168	126	151
11	---	---	---	234	160	190	203	160	179	140	125	133
12	---	---	253	226	176	198	156	135	149	144	87	134
13	306	243	275	---	---	---	137	111	119	126	76	108
14	365	254	284	---	---	---	114	85	106	155	126	141
15	298	248	272	252	217	231	95	69	85	170	155	163
16	301	240	268	284	176	222	117	95	108	183	143	164
17	257	244	249	146	120	126	135	114	125	149	132	138
18	254	240	248	129	125	128	143	124	135	151	133	143
19	350	254	273	193	128	134	148	133	139	160	145	152
20	573	327	402	---	---	---	151	143	147	177	150	164
21	383	268	302	---	---	---	154	147	151	187	164	175
22	288	150	249	---	---	---	162	152	156	203	177	189
23	136	104	112	---	---	---	163	143	152	192	152	174
24	146	118	138	---	---	---	151	138	144	179	138	161
25	---	---	---	---	---	---	154	138	146	223	153	175
26	---	---	---	---	---	---	176	148	160	252	224	235
27	---	---	---	---	---	---	173	148	161	282	253	268
28	---	---	---	243	204	219	168	157	164	239	179	222
29	---	---	---	246	206	219	190	163	175	220	175	191
30	---	---	---	258	202	219	214	174	188	228	195	208
31	---	---	---	256	219	231	---	---	---	235	199	222
MONTH	---	---	---	---	---	---	242	60	141	282	76	165

01333300 HOOSIC RIVER BELOW WILLIAMSTOWN, MASS.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974.--Continued

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	257	207	239	234	221	227	381	274	311	---	---	---
2	199	154	167	235	224	229	388	297	331	---	---	---
3	199	163	179	231	114	144	364	309	329	---	---	---
4	202	178	189	156	122	139	323	290	304	138	122	130
5	216	192	203	187	151	167	289	280	283	190	132	161
6	233	204	216	156	133	143	384	300	335	254	185	215
7	253	216	225	183	157	171	421	299	340	240	205	218
8	---	---	---	207	183	195	433	324	367	210	200	205
9	---	---	---	225	207	218	554	353	429	312	212	236
10	---	---	---	244	226	235	413	352	375	303	236	259
11	---	---	---	265	240	250	378	332	358	352	234	272
12	---	---	---	272	248	260	385	316	342	341	271	297
13	---	---	---	275	254	263	417	310	349	334	278	298
14	---	---	---	262	222	251	438	339	371	---	---	---
15	---	---	---	235	136	167	445	365	397	---	---	---
16	---	---	---	261	186	221	448	355	393	---	---	---
17	---	---	---	287	226	251	431	252	367	---	---	---
18	177	128	158	309	247	271	258	179	210	---	---	---
19	225	183	206	291	245	264	326	225	272	---	---	---
20	255	210	229	265	242	268	387	282	327	---	---	---
21	237	149	205	274	263	268	422	342	374	---	---	---
22	173	136	153	327	272	287	487	356	401	---	---	---
23	197	177	186	337	272	295	473	370	409	---	---	---
24	244	196	213	353	280	306	415	355	379	239	197	215
25	240	212	226	331	289	303	349	308	326	257	215	228
26	247	219	230	334	282	303	416	293	334	236	205	217
27	217	184	198	295	266	282	396	278	335	263	205	222
28	204	189	197	276	262	269	269	199	222	229	214	221
29	225	204	211	336	264	287	281	197	221	217	95	145
30	221	213	217	331	261	288	219	149	198	134	102	123
31	---	---	---	337	264	296	220	209	215	---	---	---
MONTH	---	---	---	353	114	243	554	149	329	---	---	---
YEAR	573	60	222									

PH (UNITS), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	7.6	7.2	7.4	7.5	7.3	7.4	---	---	---
2	7.9	7.0	7.8	7.6	7.2	7.4	7.4	7.1	7.3	---	---	---
3	7.8	7.5	7.6	7.5	7.4	7.5	7.8	7.2	7.4	---	---	---
4	---	---	---	7.6	7.4	7.5	7.7	7.2	7.4	---	---	---
5	---	---	---	7.6	7.4	7.5	7.7	7.2	7.4	---	---	---
6	---	---	---	7.8	7.2	7.5	7.5	7.0	7.2	---	---	---
7	---	---	---	7.8	7.1	7.3	7.7	7.0	7.2	---	---	---
8	---	---	---	7.6	7.1	7.3	7.2	7.0	7.1	---	---	---
9	---	---	---	7.7	7.0	7.3	7.1	6.9	7.0	---	---	---
10	---	---	---	7.4	7.0	7.1	---	---	---	---	---	---
11	---	---	---	7.2	6.9	7.1	7.7	7.2	7.4	---	---	---
12	---	---	---	7.7	6.9	7.2	8.0	7.1	7.4	---	---	---
13	---	---	---	7.3	6.9	7.0	8.0	7.2	7.4	---	---	---
14	---	---	---	7.8	7.4	7.6	7.5	7.0	7.3	---	---	---
15	---	---	---	7.6	7.3	7.4	7.4	7.1	7.2	---	---	---
16	---	---	---	7.4	7.1	7.3	7.4	7.2	7.3	---	---	---
17	---	---	---	7.4	7.1	7.2	7.9	7.3	7.4	8.7	7.9	8.2
18	---	---	---	7.5	7.2	7.3	7.9	7.3	7.5	8.4	7.8	8.0
19	---	---	---	8.4	7.2	7.4	7.7	7.2	7.4	8.3	7.9	8.0
20	---	---	---	7.9	7.3	7.5	8.1	7.5	7.7	8.0	7.8	7.9
21	---	---	---	8.1	7.4	7.6	---	---	---	8.3	7.8	8.0
22	---	---	---	7.7	7.5	7.6	---	---	---	8.3	7.7	7.9
23	---	---	---	7.8	7.5	7.6	---	---	---	8.1	7.6	7.8
24	---	---	---	7.8	7.5	7.6	---	---	---	8.0	7.7	7.8
25	---	---	---	7.7	7.4	7.6	---	---	---	8.2	7.8	7.9
26	8.1	7.5	7.7	8.6	7.4	7.7	---	---	---	8.0	7.8	7.9
27	7.5	7.3	7.4	8.1	7.6	7.8	---	---	---	7.8	7.5	7.7
28	8.0	7.2	7.5	8.1	7.3	7.7	---	---	---	8.1	7.5	7.8
29	7.7	7.4	7.5	7.6	7.2	7.4	---	---	---	8.1	7.9	8.0
30	7.4	7.1	7.2	7.8	7.2	7.4	---	---	---	8.1	7.8	7.9
31	7.6	7.4	7.5	---	---	---	---	---	---	8.3	7.8	7.9
MONTH	---	---	---	8.6	6.9	7.4	---	---	---	---	---	---

01333300 HOOSIC RIVER BELOW WILLIAMSTOWN, MASS.--Continued

PH (UNITS), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974.--Continued

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	8.2	7.8	7.9	---	---	---	8.5	8.0	8.1	7.8	7.4	7.6
2	8.1	7.9	8.0	---	---	---	8.2	7.9	8.1	8.2	7.5	7.8
3	8.0	7.9	7.9	---	---	---	8.5	7.9	8.2	8.3	7.6	7.8
4	8.4	7.9	8.0	---	---	---	8.1	7.6	7.8	8.3	7.8	8.0
5	7.9	7.8	7.8	---	---	---	7.9	7.6	7.7	8.4	7.8	8.0
6	---	---	---	---	---	---	7.9	7.7	7.8	8.5	7.8	8.1
7	---	---	---	8.1	7.7	7.9	8.1	7.9	8.0	8.4	7.6	8.1
8	---	---	---	8.2	7.8	7.9	8.2	8.0	8.1	8.6	7.5	8.1
9	---	---	---	8.4	7.9	8.0	8.3	8.0	8.2	8.7	7.7	8.1
10	---	---	---	8.0	7.8	7.9	8.3	8.0	8.1	8.3	7.5	7.8
11	---	---	---	8.9	7.9	8.3	8.3	8.0	8.1	8.5	7.5	8.0
12	---	---	---	8.3	7.9	8.1	8.2	8.0	8.1	8.1	7.4	7.7
13	8.7	8.1	8.3	---	---	---	8.0	8.0	8.0	7.4	7.1	7.2
14	8.4	8.1	8.2	---	---	---	8.1	7.9	8.0	7.7	7.3	7.5
15	8.7	8.0	8.3	8.8	8.0	8.3	8.1	7.7	7.9	7.8	7.3	7.5
16	8.7	8.1	8.2	8.2	8.0	8.1	7.9	7.7	7.8	8.1	7.3	7.7
17	8.2	8.0	8.1	7.9	7.6	7.8	8.0	7.7	7.8	7.8	7.5	7.6
18	8.2	8.0	8.1	8.3	7.7	7.9	8.0	7.7	7.8	8.1	7.4	7.7
19	8.8	8.0	8.2	8.0	7.6	7.8	8.1	7.7	7.9	8.0	7.5	7.7
20	8.3	8.0	8.1	---	---	---	8.0	7.7	7.8	8.1	7.5	7.8
21	8.5	7.9	8.1	---	---	---	8.0	7.8	7.9	8.0	7.5	7.8
22	8.3	7.8	8.0	---	---	---	8.5	7.7	8.0	8.1	7.5	7.7
23	7.8	7.5	7.6	---	---	---	8.1	7.7	7.9	7.5	7.3	7.4
24	7.8	7.5	7.7	---	---	---	8.2	7.8	7.9	7.9	7.4	7.6
25	8.2	7.7	7.9	---	---	---	8.2	7.8	8.0	7.8	7.3	7.6
26	8.4	7.8	7.9	---	---	---	8.6	7.8	8.0	7.9	7.3	7.6
27	---	---	---	---	---	---	8.3	7.7	7.9	8.2	7.4	7.8
28	---	---	---	8.7	7.6	8.1	8.3	7.8	8.0	8.4	7.4	7.9
29	---	---	---	8.5	7.6	8.1	8.6	7.8	8.2	7.6	7.2	7.4
30	---	---	---	8.3	7.9	8.1	8.5	7.6	8.0	8.0	7.2	7.6
31	---	---	---	8.1	7.9	8.0	---	---	---	8.1	7.2	7.6
MONTH	---	---	---	---	---	---	8.6	7.6	8.0	8.7	7.1	7.7

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	7.6	7.1	7.3	8.0	7.4	7.7	7.9	7.4	7.6	---	---	---
2	8.0	7.1	7.5	8.5	7.3	7.8	8.1	7.4	7.7	---	---	---
3	8.5	7.2	7.8	7.8	7.4	7.6	7.9	7.5	7.6	---	---	---
4	8.8	7.6	8.1	8.2	7.5	7.8	7.9	7.5	7.6	7.8	7.6	7.7
5	8.7	7.5	8.1	8.0	7.4	7.7	7.8	7.5	7.6	8.0	7.5	7.7
6	8.7	7.4	8.1	8.0	7.6	7.8	8.0	7.5	7.8	8.0	7.5	7.7
7	8.6	7.5	8.1	8.3	7.6	7.9	7.8	7.4	7.6	7.9	7.5	7.7
8	---	---	---	8.4	7.7	7.9	7.9	7.4	7.6	8.0	7.6	7.8
9	---	---	---	8.4	7.7	8.0	7.7	7.0	7.4	8.3	7.6	7.8
10	---	---	---	8.1	7.7	7.9	7.8	7.2	7.5	8.1	7.5	7.7
11	---	---	---	8.3	7.7	8.0	7.8	7.4	7.5	8.1	7.4	7.7
12	---	---	---	8.5	7.8	8.1	7.8	7.3	7.5	7.9	7.4	7.6
13	---	---	---	8.6	7.6	8.1	7.8	7.3	7.5	7.9	7.3	7.6
14	---	---	---	8.7	7.8	8.2	7.8	7.4	7.6	---	---	---
15	---	---	---	8.1	7.6	7.8	7.8	7.4	7.6	---	---	---
16	---	---	---	8.5	7.7	8.0	7.8	7.5	7.6	---	---	---
17	---	---	---	8.6	7.8	8.1	7.6	7.5	7.6	---	---	---
18	7.9	7.6	7.7	8.4	7.9	8.1	7.7	7.4	7.6	---	---	---
19	8.4	7.6	7.9	8.2	8.0	8.1	8.0	7.4	7.6	---	---	---
20	8.0	7.5	7.7	8.1	8.0	8.0	7.8	7.4	7.5	---	---	---
21	8.0	7.4	7.6	8.3	8.1	8.2	7.7	7.4	7.5	---	---	---
22	---	---	---	8.5	7.8	8.3	7.7	7.4	7.5	---	---	---
23	8.1	7.4	7.7	8.3	7.4	7.8	7.7	7.4	7.6	---	---	---
24	8.2	7.5	7.7	7.8	7.4	7.6	7.8	7.5	7.6	8.3	7.6	7.9
25	7.9	7.4	7.6	8.0	7.3	7.6	7.9	7.6	7.7	8.1	7.6	7.8
26	8.0	7.5	7.7	8.2	7.5	7.8	7.9	7.5	7.7	8.3	7.5	7.8
27	7.7	7.5	7.6	7.7	7.3	7.5	7.7	7.4	7.5	8.5	7.6	7.9
28	7.9	7.4	7.7	8.0	7.2	7.6	7.6	7.3	7.4	7.9	7.3	7.6
29	8.0	7.4	7.7	8.1	7.3	7.6	7.6	7.2	7.3	7.6	7.0	7.4
30	8.2	7.4	7.8	8.1	7.2	7.6	7.6	7.3	7.4	8.1	7.6	7.8
31	---	---	---	8.1	7.4	7.7	7.6	7.3	7.4	---	---	---
MONTH	---	---	---	8.7	7.2	7.9	8.1	7.0	7.6	---	---	---
YEAR	8.9	6.9	7.7									

01333300 HOOSIC RIVER BELOW WILLIAMSTOWN, MASS.--Continued

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	10.1	9.0	9.9	12.0	10.7	11.4	---	---	---
2	7.8	3.6	6.0	12.4	10.3	10.9	12.9	11.6	12.1	---	---	---
3	6.1	3.2	4.4	10.8	10.2	10.4	12.5	10.9	11.7	---	---	---
4	---	---	---	11.1	10.6	10.8	11.3	9.8	10.7	---	---	---
5	---	---	---	11.2	11.0	11.1	10.1	8.5	9.7	---	---	---
6	---	---	---	10.5	9.2	9.8	10.5	7.4	9.8	---	---	---
7	---	---	---	10.4	9.1	9.6	10.9	10.5	10.7	---	---	---
8	---	---	---	10.3	8.8	9.4	11.8	10.7	11.2	---	---	---
9	---	---	---	10.3	8.8	9.4	11.4	10.5	11.0	---	---	---
10	---	---	---	11.0	9.2	9.9	---	---	---	---	---	---
11	---	---	---	11.1	9.1	10.0	11.0	10.8	10.9	---	---	---
12	---	---	---	10.7	8.3	9.4	11.8	11.2	11.4	---	---	---
13	---	---	---	9.2	7.1	8.1	12.4	11.5	12.0	---	---	---
14	---	---	---	8.8	6.2	7.4	12.1	11.6	11.7	---	---	---
15	---	---	---	8.7	5.6	7.1	12.7	12.2	12.6	---	---	---
16	---	---	---	8.2	6.1	7.1	13.7	12.9	13.3	---	---	---
17	---	---	---	10.7	8.3	9.6	13.8	10.0	12.6	10.2	9.8	10.0
18	---	---	---	10.6	8.2	9.4	10.6	7.7	9.6	10.3	10.0	10.2
19	---	---	---	9.7	7.8	8.5	12.8	6.7	9.6	10.4	10.2	10.3
20	---	---	---	11.1	7.9	9.2	13.5	10.7	12.2	10.9	10.6	10.7
21	---	---	---	10.9	8.1	9.3	---	---	---	10.9	10.5	10.7
22	---	---	---	9.2	7.7	8.4	---	---	---	11.6	10.9	11.2
23	---	---	---	10.1	7.8	8.7	---	---	---	11.9	11.3	11.5
24	---	---	---	10.2	7.8	8.8	---	---	---	12.9	12.1	12.4
25	---	---	---	---	---	---	---	---	---	12.7	12.1	12.4
26	---	---	---	---	---	---	---	---	---	13.1	12.3	12.7
27	---	---	---	---	---	---	---	---	---	13.1	10.2	12.5
28	---	---	---	9.5	9.2	9.4	---	---	---	11.8	11.0	11.3
29	---	---	---	10.7	9.6	10.4	---	---	---	12.0	10.0	11.6
30	---	---	---	11.1	10.4	10.8	---	---	---	12.2	11.5	11.9
31	10.9	10.1	10.4	---	---	---	---	---	---	12.0	11.2	11.7
MONTH	---	---	---	12.4	5.6	9.4	---	---	---	---	---	---

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	12.7	11.6	12.4	---	---	---	11.0	10.4	10.7	9.0	7.8	8.5
2	12.7	12.5	12.6	---	---	---	11.5	11.2	11.3	10.0	8.6	9.4
3	12.5	12.3	12.4	---	---	---	12.1	10.6	11.4	---	---	---
4	12.3	12.0	12.1	---	---	---	11.6	11.0	11.3	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	9.9	9.2	9.5
7	---	---	---	11.4	10.6	11.1	---	---	---	10.5	9.3	9.9
8	---	---	---	11.9	10.8	11.6	---	---	---	10.8	8.6	9.9
9	---	---	---	12.1	10.4	11.8	12.6	12.2	12.5	10.2	8.3	9.1
10	---	---	---	11.9	11.7	11.8	13.0	12.1	12.6	9.4	8.3	9.1
11	---	---	---	12.4	11.5	11.8	13.0	11.6	12.4	10.2	8.1	9.3
12	---	---	---	12.3	11.4	11.8	12.9	12.0	12.5	9.3	8.1	8.8
13	11.8	11.3	11.6	---	---	---	12.6	12.2	12.5	9.5	9.3	9.5
14	12.1	11.1	11.8	---	---	---	12.7	11.2	12.1	9.7	8.1	9.0
15	12.4	11.7	12.2	12.4	11.4	11.9	12.7	11.0	11.6	8.6	7.3	8.0
16	12.4	11.9	12.2	11.9	11.3	11.5	11.6	10.6	11.2	8.7	7.4	8.0
17	12.0	11.6	11.8	12.3	11.9	12.2	11.4	10.1	10.8	8.3	7.4	7.9
18	12.4	11.8	12.0	12.2	11.6	12.0	10.8	9.7	10.3	8.2	6.8	7.5
19	12.2	11.7	11.9	11.8	11.3	11.6	10.6	9.8	10.1	7.7	3.7	6.5
20	11.8	11.6	11.7	---	---	---	11.2	9.8	10.4	8.0	6.1	7.1
21	12.2	11.2	11.7	---	---	---	10.7	8.9	9.9	6.9	5.1	6.1
22	12.0	10.0	11.5	---	---	---	9.4	8.3	8.9	5.9	3.9	5.1
23	13.0	9.6	11.7	---	---	---	9.0	8.3	8.8	4.3	3.9	4.1
24	13.1	12.3	12.8	---	---	---	9.8	8.9	9.5	---	---	---
25	12.1	11.6	11.9	---	---	---	10.3	8.9	9.6	---	---	---
26	12.1	11.7	12.0	---	---	---	9.9	7.8	8.9	---	---	---
27	---	---	---	---	---	---	9.4	7.9	8.7	---	---	---
28	---	---	---	12.6	11.7	12.1	9.3	7.6	8.6	---	---	---
29	---	---	---	12.8	11.8	12.3	8.7	7.4	8.2	---	---	---
30	---	---	---	12.3	10.6	11.6	8.7	7.3	8.0	---	---	---
31	---	---	---	11.0	10.4	10.7	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	13.0	7.3	10.5	---	---	---

01333300 HOOSIC RIVER BELOW WILLIAMSTOWN, MASS.--Continued

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974.--Continued

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	8.6	5.8	7.1	7.7	3.1	4.8	---	---	---
2	---	---	---	8.8	5.1	7.0	7.8	2.5	4.8	---	---	---
3	7.4	6.6	7.0	7.0	3.1	5.0	6.7	2.4	4.1	---	---	---
4	9.1	6.1	7.5	7.6	2.4	4.5	6.5	2.7	4.4	10.0	9.4	9.8
5	8.8	5.6	7.1	7.8	5.7	6.7	6.6	2.8	4.4	10.6	8.9	9.8
6	8.7	5.3	6.9	7.6	3.6	5.6	7.4	2.7	5.4	---	---	---
7	9.0	5.5	7.0	7.7	3.2	4.2	7.0	2.7	4.5	---	---	---
8	---	---	---	---	---	---	6.8	2.5	4.4	---	---	---
9	---	---	---	---	---	---	6.1	2.2	3.9	---	---	---
10	---	---	---	---	---	---	6.8	2.3	4.2	9.1	6.0	7.3
11	---	---	---	---	---	---	6.7	2.0	4.2	9.0	4.8	6.6
12	---	---	---	---	---	---	5.8	1.8	3.6	8.3	4.2	5.9
13	---	---	---	---	---	---	---	---	---	7.7	4.2	5.6
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	7.0	5.9	6.5	---	---	---	---	---	---
16	---	---	---	8.3	5.5	6.7	---	---	---	---	---	---
17	---	---	---	8.5	3.9	6.4	---	---	---	---	---	---
18	7.4	6.3	6.9	---	---	---	---	---	---	---	---	---
19	8.3	5.9	7.1	---	---	---	---	---	---	---	---	---
20	7.7	5.9	6.7	---	---	---	5.5	2.2	3.8	---	---	---
21	7.8	6.1	7.0	---	---	---	6.4	2.1	3.9	---	---	---
22	---	---	---	8.9	4.5	6.8	6.3	2.3	4.0	---	---	---
23	9.0	7.0	7.8	10.0	3.9	6.4	5.6	2.7	3.8	---	---	---
24	8.5	6.4	7.4	8.6	4.4	6.2	6.5	2.8	4.6	11.5	9.0	10.3
25	7.9	6.1	7.1	9.8	5.0	6.9	7.6	3.7	5.5	11.0	9.2	9.9
26	9.0	6.9	7.8	9.5	4.2	6.7	6.9	2.5	5.1	10.9	9.3	10.1
27	9.0	7.5	8.3	8.7	4.1	6.2	7.1	2.0	5.0	11.8	8.9	10.2
28	9.5	7.0	8.3	9.6	4.3	6.6	7.5	5.0	6.7	11.2	9.0	9.8
29	9.4	6.6	8.0	8.8	3.1	5.7	7.8	6.5	7.2	11.3	5.2	9.7
30	9.2	5.9	7.5	7.9	3.1	5.0	7.4	5.3	6.4	9.0	2.5	5.6
31	---	---	---	7.9	3.0	5.1	6.7	4.6	6.0	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---
YEAR	13.8	1.8	9.0									

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	10.5	8.5	10.0	5.0	2.5	4.0	---	---	---
2	14.0	13.0	13.5	10.0	8.0	9.0	3.0	1.5	2.5	---	---	---
3	16.5	14.0	15.5	10.0	8.0	9.0	4.0	2.0	3.0	---	---	---
4	---	---	---	8.0	6.5	7.5	5.5	3.5	4.5	---	---	---
5	---	---	---	7.5	6.0	6.5	9.0	6.0	7.5	---	---	---
6	---	---	---	6.0	4.0	5.0	9.0	6.0	7.5	---	---	---
7	---	---	---	5.0	4.0	4.5	5.5	4.0	5.0	---	---	---
8	---	---	---	5.5	4.0	5.0	4.0	3.0	3.5	---	---	---
9	---	---	---	5.5	4.0	4.5	4.5	3.0	3.5	---	---	---
10	---	---	---	3.5	2.5	3.0	---	---	---	---	---	---
11	---	---	---	4.0	2.0	3.0	3.5	3.0	3.5	---	---	---
12	---	---	---	5.5	3.0	4.5	3.5	2.0	3.0	---	---	---
13	---	---	---	6.5	5.0	6.0	2.5	1.0	2.0	---	---	---
14	---	---	---	9.0	6.5	8.0	4.0	2.5	3.5	---	---	---
15	---	---	---	9.0	7.5	8.5	3.5	1.5	2.5	---	---	---
16	---	---	---	9.0	6.0	8.0	1.5	0.5	1.0	---	---	---
17	---	---	---	6.0	4.0	4.5	0.0	0.0	0.0	0.5	0.0	0.5
18	---	---	---	5.5	3.5	4.5	0.0	0.0	0.0	0.5	0.5	0.5
19	---	---	---	6.5	5.0	5.5	0.0	0.0	0.0	0.5	0.5	0.5
20	---	---	---	5.5	3.5	4.5	0.5	0.0	0.0	0.5	0.5	0.5
21	---	---	---	5.5	2.5	4.0	---	---	---	1.0	0.5	0.5
22	---	---	---	7.5	6.0	7.0	---	---	---	1.5	1.0	1.0
23	---	---	---	7.5	6.0	7.0	---	---	---	2.0	1.0	1.5
24	---	---	---	7.5	6.0	7.0	---	---	---	1.5	1.0	1.5
25	---	---	---	8.5	7.0	8.0	---	---	---	2.5	1.5	2.0
26	13.0	11.0	12.5	7.0	5.0	6.0	---	---	---	3.0	1.5	2.0
27	12.5	10.0	11.5	7.0	6.0	6.0	---	---	---	3.0	2.5	3.0
28	10.0	8.0	8.5	8.5	7.0	7.5	---	---	---	3.5	2.5	3.0
29	8.5	7.5	8.0	8.0	5.5	6.5	---	---	---	3.5	3.0	3.5
30	10.5	8.0	9.5	5.0	4.5	5.0	---	---	---	4.5	2.5	3.0
31	11.0	9.0	10.0	---	---	---	---	---	---	4.5	2.5	3.5
MONTH	---	---	---	10.5	2.0	6.0	---	---	---	---	---	---

01333300 HOOSIC RIVER BELOW WILLIAMSTOWN, MASS.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974.--Continued

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	3.5	0.5	1.5	---	---	---	5.5	3.0	3.5	14.0	11.0	12.5
2	1.0	0.5	0.5	---	---	---	---	---	---	11.0	7.0	9.5
3	0.5	0.5	0.5	---	---	---	7.5	2.5	4.5	10.0	8.0	8.5
4	0.5	0.5	0.5	---	---	---	6.0	4.5	5.0	11.5	8.0	9.0
5	---	---	---	---	---	---	5.5	4.0	5.0	12.0	6.5	9.5
6	---	---	---	---	---	---	4.0	2.5	3.5	10.5	8.0	8.5
7	---	---	---	6.5	4.0	5.0	5.5	1.5	3.5	8.5	7.0	7.5
8	---	---	---	5.5	3.5	4.0	5.0	3.5	4.0	11.0	7.0	8.5
9	---	---	---	4.0	2.5	3.0	3.5	0.5	1.5	12.0	9.5	10.5
10	---	---	---	3.5	2.5	3.0	3.5	1.0	2.0	10.5	9.0	9.5
11	---	---	---	4.0	1.0	3.0	6.5	1.5	4.0	13.5	8.5	11.0
12	---	---	---	3.5	1.0	2.0	6.0	3.0	4.5	12.0	10.0	11.0
13	2.5	1.0	1.5	---	---	---	5.5	4.5	5.0	10.0	9.0	9.0
14	2.5	1.0	1.5	---	---	---	9.5	4.5	7.0	14.0	8.5	11.0
15	1.5	0.5	0.5	4.0	1.0	3.0	7.5	5.5	6.0	18.0	12.0	15.0
16	1.0	0.0	0.5	3.5	2.5	3.0	7.5	4.5	6.0	16.0	13.0	15.0
17	2.0	1.0	1.5	2.5	1.0	1.5	9.0	4.5	7.0	16.5	13.0	14.5
18	2.0	0.0	1.0	3.0	0.5	1.5	10.0	6.0	8.0	17.0	13.0	15.0
19	1.5	0.5	1.0	3.0	1.0	2.0	10.0	7.0	8.5	16.0	12.0	14.0
20	2.0	1.0	1.5	---	---	---	9.0	5.0	7.0	15.0	10.5	13.0
21	3.5	0.5	2.0	---	---	---	11.0	6.0	8.5	13.0	10.5	12.0
22	2.5	1.5	2.5	---	---	---	12.0	9.5	10.5	17.0	12.0	14.5
23	1.5	1.0	1.0	---	---	---	11.5	10.0	10.5	16.0	13.0	14.5
24	2.0	0.5	1.0	---	---	---	9.5	7.5	8.5	13.5	12.0	13.0
25	---	---	---	---	---	---	10.5	6.0	8.0	13.5	11.0	12.0
26	---	---	---	---	---	---	11.5	7.0	9.0	11.5	10.0	11.0
27	---	---	---	---	---	---	12.0	7.0	9.5	11.0	9.5	10.5
28	---	---	---	4.5	1.5	3.5	14.0	9.0	11.0	13.0	9.5	11.0
29	---	---	---	2.5	1.0	2.0	15.5	12.0	13.5	12.0	10.5	11.0
30	---	---	---	2.5	0.5	1.5	15.0	13.0	14.0	14.5	10.5	12.5
31	---	---	---	3.5	2.0	3.0	---	---	---	15.0	13.0	14.0
MONTH	---	---	---	---	---	---	15.5	0.5	7.0	18.0	6.5	11.5

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	15.0	13.0	14.0	21.5	18.0	19.5	21.5	19.0	20.5	---	---	---
2	14.5	12.5	13.5	20.5	17.0	19.0	22.5	19.0	21.0	---	---	---
3	16.5	12.0	14.0	20.5	17.0	18.5	23.0	21.0	22.0	---	---	---
4	18.0	12.5	15.5	22.0	17.5	19.5	23.0	21.5	22.0	14.5	14.0	14.0
5	20.0	14.5	17.0	21.0	19.0	20.0	22.0	20.5	21.0	16.5	12.5	14.0
6	19.5	16.0	17.5	21.0	17.0	19.0	22.5	19.0	21.5	15.5	14.0	15.0
7	18.5	14.5	16.5	22.0	17.0	19.5	21.0	19.0	20.0	16.5	14.5	15.5
8	---	---	---	23.0	18.5	20.5	22.0	18.5	20.5	18.5	15.0	16.5
9	---	---	---	24.0	19.5	22.0	21.5	20.5	21.0	18.5	16.0	17.5
10	---	---	---	23.0	21.0	22.0	23.0	19.0	21.0	19.5	16.5	18.0
11	---	---	---	21.5	18.0	19.5	22.0	18.5	20.5	20.0	17.0	19.0
12	---	---	---	21.5	17.0	19.5	23.0	19.0	21.0	21.0	17.5	19.5
13	---	---	---	22.0	17.0	20.0	23.0	20.0	21.5	22.5	20.0	21.0
14	---	---	---	23.5	19.0	21.5	23.5	20.5	22.0	---	---	---
15	---	---	---	23.5	19.0	21.0	23.5	20.0	21.5	---	---	---
16	---	---	---	22.5	19.5	21.0	23.0	19.0	21.0	---	---	---
17	---	---	---	22.0	17.5	20.0	21.0	19.0	20.0	---	---	---
18	20.0	16.0	18.5	22.0	18.5	20.5	21.5	18.0	19.5	---	---	---
19	19.5	16.0	18.0	22.0	20.0	21.0	22.5	18.0	20.5	---	---	---
20	19.5	17.0	18.5	21.0	18.5	19.5	23.5	20.0	22.0	---	---	---
21	18.5	17.0	17.5	21.5	16.0	19.0	24.0	20.5	22.5	---	---	---
22	---	---	---	21.5	17.0	19.5	23.0	20.5	22.0	---	---	---
23	18.0	16.5	17.0	21.0	18.5	20.0	21.5	21.0	21.0	---	---	---
24	19.0	15.5	17.5	20.0	17.5	18.5	22.5	20.5	21.0	12.5	10.0	11.5
25	17.5	16.0	16.5	18.5	16.5	17.5	22.5	19.5	21.0	12.0	10.0	11.0
26	17.0	15.0	16.0	20.0	17.5	19.0	20.5	19.0	20.0	13.5	11.5	12.0
27	16.5	15.0	16.0	19.5	18.0	19.0	22.0	19.5	20.5	15.0	11.5	13.0
28	19.0	14.5	16.5	21.5	18.0	20.0	20.5	19.0	19.5	15.0	13.5	14.0
29	18.5	16.0	17.5	23.0	19.0	21.5	19.0	17.5	18.0	15.0	12.5	14.5
30	20.5	16.5	18.5	23.0	20.0	21.5	17.5	17.0	17.0	12.5	10.5	12.0
31	---	---	---	22.0	19.5	21.0	19.0	16.0	17.5	---	---	---
MONTH	---	---	---	24.0	16.0	20.0	24.0	16.0	20.5	---	---	---
YEAR	24.0	0.0	10.5									

01333350 HOOSIC RIVER NEAR NORTH POWNAL, VT.

LOCATION.--Lat 42°48'33", long 73°17'12", Rensselaer County, N.Y., at bridge on New York-Vermont State Highway 346, at State line, 1.3 mi (2.1 km) northwest of North Pownal, Vt.

PERIOD OF RECORD.--Chemical analyses: August 1969 to current year.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)
OCT. 16...	0900	359	409	7.9	1.6	.00	1.6	.01	.31	1.9	.32
NOV. 13...	1000	363	311	7.5	1.6	.00	1.6	.00	.57	2.2	.57
JAN. 22...	0930	918	331	7.3	.90	.07	.97	.32	.58	1.9	.90
MAR. 18...	1230	890	172	7.4	.75	.00	.75	.24	.17	1.2	.41
APR. 15...	1015	E6400	101	7.3	.42	.03	.45	.40	.48	1.3	.88
MAY 14...	0920	1650	131	7.4	.50	.04	.54	.10	.16	.80	.26
JUNE 11...	0930	296	258	7.6	.58	.08	.66	.13	.49	1.3	.62
JULY 08...	1020	382	214	7.6	.53	.05	.58	.15	.27	1.0	.42
AUG. 14...	0930	106	335	--	1.1	.19	1.3	.56	.14	2.0	.70
SEP. 04...	1030	--	184	--	.46	.02	.48	.28	.25	1.0	.53

DATE	DISSOLVED ORTHO PHOSPHATE (PO4) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	FIXED NONFILTRABLE RESIDUE (MG/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)	RESIDUE ON IGNITION (MG/L)	TOTAL RESIDUE (MG/L)	TURBIDITY (JTU)	COLOR (PLATINUM-COBALT UNITS)	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)
OCT. 16...	.64	.21	.28	1	8	190	259	--	--	7	.0
NOV. 13...	.04	.01	.01	5	10	--	--	--	--	7	.0
JAN. 22...	.21	.07	.45	3	44	184	236	--	--	15	.0
MAR. 18...	.03	.01	.04	10	11	96	116	--	--	8	.0
APR. 15...	.15	.05	.24	197	224	249	293	--	--	40	.0
MAY 14...	--	--	.08	25	32	75	112	--	--	13	.0
JUNE 11...	--	--	.09	8	9	136	171	--	--	8	.0
JULY 08...	--	--	.09	13	14	113	152	6	1	14	--
AUG. 14...	--	--	.18	10	16	210	253	5	2	13	--
SEP. 04...	--	--	.08	23	30	115	159	20	9	16	--

01333350 HOOSIC RIVER NEAR NORTH POWNAL, VT.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974.--Continued

DATE	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	TOTAL CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	TOTAL MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	TOTAL SODIUM (NA) (MG/L)
OCT. 16...	1.7	320	140	34	--	11	--	31	--
NOV. 13...	3.9	0	0	27	--	9.7	--	17	--
JAN. 22...	3.4	1200	280	24	--	6.5	--	30	--
MAR. 18...	3.3	360	160	18	--	4.6	--	7.2	--
APR. 15...	2.4	5200	270	12	--	3.2	--	3.0	--
MAY 14...	3.7	1000	60	--	14	--	4.0	--	4.0
JUNE 11...	2.0	420	90	--	28	--	7.8	--	11
JULY 08...	--	930	140	--	24	--	6.6	--	6.8
AUG. 14...	--	350	130	--	40	--	11	--	24
SEP. 04...	--	930	170	--	21	--	6.4	--	6.5

DATE	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	TOTAL PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	TOTAL FLUO-RIDE (F) (MG/L)
OCT. 16...	3.5	--	170	0	139	23	27	.3	--
NOV. 13...	2.0	--	120	0	98	23	19	.2	--
JAN. 22...	1.2	--	79	0	65	21	45	.1	--
MAR. 18...	1.0	--	58	0	48	16	11	.2	--
APR. 15...	1.9	--	36	0	30	13	5.3	.1	--
MAY 14...	--	.8	50	0	41	11	5.7	--	.1
JUNE 11...	--	1.2	102	0	84	18	16	--	.1
JULY 08...	--	1.2	90	0	74	17	9.2	--	--
AUG. 14...	--	2.0	138	--	113	25	29	--	--
SEP. 04...	--	1.2	81	--	66	14	8.9	--	--

DATE	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT. 16...	216	130	0	3.4	--	--	--	--	--
NOV. 13...	161	110	9	6.1	--	--	--	--	--
JAN. 22...	170	87	22	6.3	--	--	--	--	--
MAR. 18...	90	64	16	3.7	--	--	--	--	--
APR. 15...	59	43	14	2.9	--	--	--	--	--
MAY 14...	--	--	--	3.2	--	--	--	--	--
JUNE 11...	--	--	--	4.1	--	<1	20	23	<.5
JULY 08...	--	--	--	3.6	--	--	--	--	--
AUG. 14...	--	--	--	--	3.8	<1	0	21	<.5
SEP. 04...	--	--	--	--	5.9	--	--	--	--

ANALYSES OF SAMPLES COLLECTED AT PARTIAL-RECORD STATIONS

CHEMICAL ANALYSES, NORTH ATLANTIC SLOPE BASINS, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	CHLOROPHYLL A (UG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)
MERRIMACK RIVER BASIN												
01096506 - NASHUA RIVER NEAR HOLLIS, N. H. (LAT 42 42 46 LONG 071 32 58)												
OCT., 1973 29...	1600	E160	190	6.8	9.0	7.4	8200	40	20	9.1	--	.00
NARRAGANSETT BAY												
01109145 - MOUNT HOPE BAY NEAR TIVERTON R I (LAT 41 40 25 LONG 071 12 50)												
OCT., 1973 02...	1010	--	44500	8.6	17.5	6.6	54	5	--	--	.15	.00
NOV. 06...	1040	--	41700	7.6	10.6	8.8	230	38	--	--	.33	.00
DEC. 04...	1130	--	47300	8.2	8.5	8.2	140	18	--	--	.10	.02
JAN., 1974 15...	1200	--	39300	--	2.3	10.2	--	120	--	--	.17	.03
FEB. 05...	1515	--	38300	--	2.2	10.9	35	20	--	--	.17	.01
MAR. 12...	1145	--	40100	7.9	4.5	11.0	8	1	--	--	--	.01
APR. 02...	1020	--	37400	8.0	6.5	11.3	--	190	--	--	--	.02
MAY 07...	1200	--	40400	8.3	11.5	8.7	2	57	--	--	.00	.01
JUNE 11...	1200	--	42400	8.3	19.5	--	20	2	--	--	.00	.02
01113920 - SEEKONK RIVER AT PROVIDENCE, R.I. (LAT 41 49 02 LONG 071 23 16)												
OCT., 1973 02...	1200	--	44900	8.3	18.0	4.5	400	50	--	--	.34	.00
NOV. 06...	1330	--	41800	7.6	10.5	7.4	1300	20	--	--	.33	.00
DEC. 04...	1500	--	39500	8.2	10.0	7.0	430	85	--	--	.09	.05
JAN., 1974 15...	1415	--	39300	7.8	4.0	8.5	--	14	--	--	.16	.04
FEB. 05...	1430	--	41800	--	2.0	9.1	280	94	--	--	.16	.01
MAR. 12...	1430	--	28300	7.5	5.0	10.2	100	8	--	--	.26	.02
APR. 02...	1245	--	38400	7.7	6.5	8.6	100	24	--	--	.07	.02
MAY 07...	1430	--	22200	7.9	13.0	7.1	1000	74	--	--	.35	.03
JUNE 11...	1400	--	39200	7.9	21.0	--	12000	400	--	--	.17	.03
01115050 - PROVIDENCE RIVER OFF FIELDS POINT NEAR PROVIDENCE, R.I. (LAT 41 47 15 LONG 071 22 35)												
OCT., 1973 02...	1120	--	40900	8.3	18.5	5.9	1600	96	--	--	.67	.00
NOV. 06...	1210	--	39400	7.2	10.4	7.4	3100	110	--	--	.54	.00
DEC. 04...	1345	--	39400	8.2	8.5	7.3	200	36	--	--	.13	.08
JAN., 1974 15...	1450	--	36000	7.7	3.3	8.9	--	35	--	--	.19	.07
FEB. 05...	1330	--	38400	8.2	2.0	10.2	230	60	--	--	.25	.02
MAR. 12...	1400	--	39500	7.8	5.0	10.0	20	2	--	--	.05	.01
APR. 02...	1200	--	36400	7.7	6.7	9.6	100	25	--	--	.07	.01
MAY 07...	1400	--	35000	8.1	12.5	7.5	640	2100	--	--	.13	.02
JUNE 11...	1330	--	40800	8.0	20.0	--	630	42	--	--	.03	.03

CHEMICAL ANALYSES, NORTH ATLANTIC SLOPE BASINS, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	OIL AND GREASE (MG/L)
MERRIMACK RIVER BASIN											
01096506 - NASHUA RIVER NEAR HOLLIS, N. H. (LAT 42 42 46 LONG 071 32 58)											
OCT., 1973 29...	.00	.48	.62	1.1	1.1	.40	125	8	5	23	0
NARRAGANSETT BAY											
01109145 - MOUNT HOPE BAY NEAR TIVERTON R I (LAT 41 40 25 LONG 071 12 50)											
OCT., 1973 02...	.16	.12	--	--	--	.06	30400	5	--	--	0
NOV. 06...	.33	.15	--	--	--	.12	29900	2	--	--	0
DEC. 04...	.12	.45	--	--	--	.02	30800	4	--	--	0
JAN., 1974 15...	.20	.17	--	--	--	.08	29400	5	--	--	--
FEB. 05...	.18	.11	--	--	--	.06	28400	4	--	--	0
MAR. 12...	.00	.19	--	--	--	.02	29400	1	--	--	1
APR. 02...	.01	.14	--	--	--	.07	28900	2	--	--	0
MAY 07...	.01	.06	--	--	--	.04	30900	1	--	--	0
JUNE 11...	.02	.01	--	--	--	.06	32100	4	--	--	0
01113920 - SEEKONK RIVER AT PROVIDENCE, R.I. (LAT 41 49 02 LONG 071 23 16)											
OCT., 1973 02...	.34	.05	--	--	--	.14	30800	5	--	--	0
NOV. 06...	.33	.17	--	--	--	.18	29500	1	--	--	1
DEC. 04...	.16	.44	--	--	--	.12	29500	4	--	--	0
JAN., 1974 15...	.28	.22	--	--	--	.09	30300	9	--	--	2
FEB. 05...	.17	.20	--	--	--	.02	29700	4	--	--	0
MAR. 12...	.28	.64	--	--	--	.17	19700	5	--	--	1
APR. 02...	.09	.21	--	--	--	.08	30700	2	--	--	0
MAY 07...	.38	.40	--	--	--	.22	16200	3	--	--	0
JUNE 11...	.20	2.0	--	--	--	.26	29100	4	--	--	0
01115050 - PROVIDENCE RIVER OFF FIELDS POINT NEAR PROVIDENCE, R.I. (LAT 41 47 15 LONG 071 22 35)											
OCT., 1973 02...	.67	.06	--	--	--	.14	29200	5	--	--	0
NOV. 06...	.54	.76	--	--	--	.18	27100	5	--	--	0
DEC. 04...	.22	.60	--	--	--	.15	28400	3	--	--	0
JAN., 1974 15...	.26	.32	--	--	--	.11	28300	8	--	--	0
FEB. 05...	.27	.26	--	--	--	.04	26200	5	--	--	0
MAR. 12...	.06	.26	--	--	--	.02	28900	2	--	--	1
APR. 02...	.08	.25	--	--	--	.12	28500	4	--	--	0
MAY 07...	.15	.26	--	--	--	.12	25600	2	--	--	0
JUNE 11...	.06	.14	--	--	--	.17	30900	4	--	--	0

CHEMICAL ANALYSES, NORTH ATLANTIC SLOPE BASINS, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974.--Continued

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	CHLOROPHYLL A (UG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)
NARRAGANSETT BAY.--CONTINUED												
01117160 - EAST PASSAGE NARRAGANSETT BAY NEAR JAMESTOWN, R.I. (LAT 41 30 45 LONG 071 21 00)												
OCT., 1973 02...	0910	--	44600	8.5	17.0	7.3	6	1	--	--	.03	.02
NOV. 06...	0940	--	46100	7.8	10.6	8.4	4	1	--	--	.01	.01
DEC. 04...	1000	--	47200	8.1	8.5	9.0	--	--	--	--	.01	.01
JAN., 1974 15...	1030	--	43000	8.1	3.5	9.6	--	2	--	--	.10	.01
FEB. 05...	1000	--	39600	8.2	5.0	10.2	20	4	--	--	.13	.01
MAR. 12...	1015	--	43100	7.8	3.5	10.6	1	2	--	--	.01	.01
APR. 02...	0845	--	42500	7.9	5.5	10.2	<1	1	--	--	--	.01
MAY 07...	1015	--	43900	8.4	9.0	9.6	1	2	--	--	.00	.01
JUNE 11...	1030	--	44800	8.3	16.0	--	0	0	--	--	.02	.08
CONNECTICUT RIVER BASIN												
01132500 - CONNECTICUT RIVER AT COMERFORD RESERVOIR, NEAR MONROE, N.H. (LAT 44 19 30 LONG 072 00 05)												
OCT., 1973 30...	1100	9600	70	6.6	11.5	7.2	620	6	27	.2	.76	.00
01167000 - CONNECTICUT RIVER AT TURNERS FALLS, MASS. (LAT 42 36 40 LONG 072 33 20)												
OCT., 1973 30...	1700	12300	125	7.5	10.0	9.0	6200	760	450	1.4	--	.00

E Estimated.

CHEMICAL ANALYSES, NORTH ATLANTIC SLOPE BASINS, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974.--Continued

DATE	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	OIL AND GREASE (MG/L)
NARRAGANSETT BAY.--CONTINUED											
01117160 - EAST PASSAGE NARRAGANSETT BAY NEAR JAMESTOWN, R.I. (LAT 41 30 45 LONG 071 21 00)											
OCT., 1973 02...	.05	.09	--	--	--	.02	33000	0	--	--	0
NOV. 06...	.03	.21	--	--	--	.04	32900	2	--	--	0
DEC. 04...	.02	.21	--	--	--	.04	32400	3	--	--	0
JAN., 1974 15...	.11	.13	--	--	--	.05	33100	4	--	--	--
FEB. 05...	.14	.07	--	--	--	.03	32000	3	--	--	0
MAR. 12...	.02	.14	--	--	--	.05	31900	1	--	--	0
APR. 02...	.00	.08	--	--	--	.03	33900	1	--	--	0
MAY 07...	.01	.02	--	--	--	.02	33900	0	--	--	0
JUNE 11...	.10	.00	--	--	--	.04	34900	2	--	--	0
CONNECTICUT RIVER BASIN											
01132500 - CONNECTICUT RIVER AT COMERFORD RESERVOIR, NEAR MONROE, N.H. (LAT 44 19 30 LONG 072 00 05)											
OCT., 1973 30...	.77	.22	--	--	--	.01	100	38	2	23	0
01167000 - CONNECTICUT RIVER AT TURNERS FALLS, MASS. (LAT 42 36 40 LONG 072 33 20)											
OCT., 1973 30...	.80	.17	.19	.36	.36	.03	102	20	5	--	0

ANALYSES OF SAMPLES COLLECTED AT PARTIAL-RECORD STATIONS

CHEMICAL ANALYSES, ST. LAWRENCE RIVER BASIN, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

04294402 - LAKE CHAMPLAIN(EAST BAY)NEAR WHITEHALL NY (LAT 43 34 55 LONG 073 25 19)

DATE	TIME	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	AIR TEMPERATURE (DEG C)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	CHLOROPHYLL A (UG/L)
OCT., 1973 16...	1500	240	7.6	11.0	11.5	10.0	92	B270	120	--	8.6
MAY , 1974 29...	1830	225	7.7	14.0	13.0	9.2	87	1500	530	74	.0
JUNE 12...	0945	250	7.6	17.0	22.0	7.6	86	B190	B80	85	.4
JULY 11...	1510	215	7.6	22.5	25.0	5.8	69	--	330	--	.5
AUG. 06...	1600	189	7.5	26.5	24.0	7.2	85	--	B1300	--	4.0
SEP. 05...	0940	196	7.7	11.5	15.0	8.4	82	--	B1100	--	14

04294408 - LAKE CHAMPLAIN NEAR TICONDEROGA NY (LAT 43 50 06 LONG 073 23 16)

DATE	TIME	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	AIR TEMPERATURE (DEG C)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	CHLOROPHYLL A (UG/L)
OCT., 1973 16...	1130	220	7.9	11.0	11.5	9.8	90	1400	B80	--	5.6
MAY , 1974 29...	1550	177	7.6	15.0	14.0	10.0	96	310	B28	89	1.2
JUNE 12...	1100	205	8.1	19.0	20.0	9.5	103	B40	B11	82	3.0
JULY 11...	1210	176	7.8	21.0	23.0	6.9	79	--	B180	--	1.5
AUG. 06...	1215	171	8.0	25.0	23.5	7.7	91	--	250	--	5.7
SEP. 05...	1055	198	8.1	15.0	19.5	7.2	78	--	B96	--	16

04294410 - LAKE CHAMPLAIN NEAR CROWN POINT NY (LAT 43 55 25 LONG 073 24 20)

DATE	TIME	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	AIR TEMPERATURE (DEG C)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	CHLOROPHYLL A (UG/L)
OCT., 1973 16...	1030	250	7.5	11.5	12.0	9.5	88	B60	B2	--	1.0
MAY , 1974 29...	1430	195	7.2	15.0	15.0	9.2	90	B10	<1	<1	57
JUNE 12...	1130	170	8.2	17.5	20.0	9.7	104	B11	B2	<1	.5
JULY 11...	1105	193	7.7	21.0	22.0	7.4	84	--	B4	--	2.0
AUG. 06...	1130	192	8.0	23.5	22.5	7.6	87	--	B6	--	5.5
SEP. 05...	1130	196	8.1	15.0	19.0	7.9	85	--	B7	--	26

B Non ideal colony count.

ANALYSES OF SAMPLES COLLECTED AT PARTIAL-RECORD STATIONS

CHEMICAL ANALYSES, ST. LAWRENCE RIVER BASIN, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974.--Continued

DATE	CHLORO-PHYLL B (UG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	BICAR-BONATE (HCO3) (MG/L)
04294402 - LAKE CHAMPLAIN(EAST BAY)NEAR WHITEHALL NY (LAT 43 34 55 LONG 073 25 19)											
OCT., 1973 16...	--	.24	.01	.25	.12	.24	.61	.36	.08	--	--
MAY , 1974 29...	.0	.31	.01	.32	--	--	.64	.32	.04	--	--
JUNE 12...	.5	.00	.02	.00	--	--	.33	.33	.03	--	--
JULY 11...	2.5	.54	.03	.57	--	--	1.2	.62	.11	--	--
AUG. 06...	4.5	.36	.03	.39	--	--	.88	.49	.09	70	85
SEP. 05...	9.7	.25	.00	.25	--	--	.80	.55	.08	--	--
04294408 - LAKE CHAMPLAIN NEAR TICONDEROGA NY (LAT 43 50 06 LONG 073 23 16)											
OCT., 1973 16...	--	.00	.00	.01	.12	.13	.26	.25	.03	--	--
MAY , 1974 29...	1.6	.11	.01	.12	--	--	.44	.32	.02	--	--
JUNE 12...	6.8	.15	.01	.16	--	--	.57	.41	.04	--	--
JULY 11...	7.5	.00	.01	.01	--	--	.42	.41	.04	--	--
AUG. 06...	6.3	.03	.01	.04	--	--	.38	.34	.04	57	69
SEP. 05...	10	.07	.00	.07	--	--	.52	.45	.05	--	--
04294410 - LAKE CHAMPLAIN NEAR CROWN POINT NY (LAT 43 55 25 LONG 073 24 20)											
OCT., 1973 16...	--	.07	.02	.09	.26	.00	.35	.26	.06	--	--
MAY , 1974 29...	9.5	.05	.01	.06	--	--	.51	.45	.04	--	--
JUNE 12...	.0	.01	.02	.03	--	--	.33	.30	.03	--	--
JULY 11...	4.0	.03	.01	.04	--	--	.48	.44	.05	--	--
AUG. 06...	8.0	.03	.01	.04	--	--	.41	.37	.04	63	77
SEP. 05...	12	.03	.00	.03	--	--	.43	.40	.05	--	--

ANALYSES OF SAMPLES COLLECTED AT PARTIAL-RECORD STATIONS

CHEMICAL ANALYSES, ST. LAWRENCE RIVER BASIN, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974.--Continued

DATE	CAR-BONATE (CO3) (MG/L)	TOTAL FILT-RABLE RESIDUE (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	TUR-BID-ITY (JTU)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	OIL AND GREASE (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL FLUO-RIDE (F) (MG/L)	TOTAL ARSENIC (AS) (UG/L)
04294402 - LAKE CHAMPLAIN(EAST BAY)NEAR WHITEHALL NY (LAT 43 34 55 LONG 073 25 19)											
OCT., 1973 16...	--	--	--	15	--	--	--	4.1	--	--	0
MAY , 1974 29...	--	--	--	10	--	--	--	--	--	--	<1
JUNE 12...	--	--	--	10	--	--	--	3.1	--	--	0
JULY 11...	--	--	--	40	--	--	--	5.0	--	--	4
AUG. 06...	0	120	40	30	.0	0	4.3	5.9	4.2	.2	1
SEP. 05...	--	--	--	30	--	--	--	6.1	--	--	2
04294408 - LAKE CHAMPLAIN NEAR TICONDEROGA NY (LAT 43 50 06 LONG 073 23 16)											
OCT., 1973 16...	--	--	--	10	--	--	--	5.8	--	--	1
MAY , 1974 29...	--	--	--	8	--	--	--	4.0	--	--	2
JUNE 12...	--	--	--	6	--	--	--	2.9	--	--	0
JULY 11...	--	--	--	20	--	--	--	2.8	--	--	0
AUG. 06...	0	110	13	10	.0	0	1.1	3.2	.5	.2	1
SEP. 05...	--	--	--	20	--	--	--	4.0	--	--	1
04294410 - LAKE CHAMPLAIN NEAR CROWN POINT NY (LAT 43 55 25 LONG 073 24 20)											
OCT., 1973 16...	--	--	--	15	--	--	--	26	--	--	<1
MAY , 1974 29...	--	--	--	8	--	--	--	3.6	--	--	1
JUNE 12...	--	--	--	10	--	--	--	3.5	--	--	0
JULY 11...	--	--	--	10	--	--	--	3.1	--	--	4
AUG. 06...	0	110	14	20	.0	0	1.2	3.6	.4	.2	1
SEP. 05...	--	--	--	30	--	--	--	7.4	--	--	1

CHEMICAL ANALYSES, ST. LAWRENCE RIVER BASIN, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974.--Continued

DATE	CYANIDE (CN) (MG/L)	TOTAL CAD-MIUM (CD) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	TOTAL SELE-NIUM (SE) (UG/L)	TOTAL VANA-DIUM (V) (UG/L)	TOTAL ZINC (ZN) (UG/L)
04294402 - LAKE CHAMPLAIN(EAST BAY)NEAR WHITEHALL NY (LAT 43 34 55 LONG 073 25 19)											
OCT., 1973 16...	--	--	--	--	--	3	<.5	--	--	--	10
MAY , 1974 29...	--	0	0	20	--	5	<.5	--	--	--	30
JUNE 12...	--	0	10	10	--	8	<.5	--	--	--	140
JULY 11...	--	0	<10	20	--	12	<.5	--	--	--	50
AUG. 06...	.00	0	0	20	1200	11	<.5	80	0	4.2	120
SEP. 05...	--	0	<10	10	--	7	.6	--	--	--	20
04294408 - LAKE CHAMPLAIN NEAR TICONDEROGA NY (LAT 43 50 06 LONG 073 23 16)											
OCT., 1973 16...	--	--	--	--	--	3	<.5	--	--	--	170
MAY , 1974 29...	--	0	0	30	--	3	<.5	--	--	--	50
JUNE 12...	--	0	0	130	--	44	<.5	--	--	--	320
JULY 11...	--	0	<10	20	--	22	<.5	--	--	--	30
AUG. 06...	.00	0	0	10	420	72	<.5	10	0	2.2	50
SEP. 05...	--	0	<10	10	--	8	.6	--	--	--	20
04294410 - LAKE CHAMPLAIN NEAR CROWN POINT NY (LAT 43 55 25 LONG 073 24 20)											
OCT., 1973 16...	--	--	--	--	--	5	<.5	--	--	--	30
MAY , 1974 29...	--	0	<10	10	--	4	<.5	--	--	--	120
JUNE 12...	--	0	10	30	--	8	<.5	--	--	--	40
JULY 11...	--	0	<10	20	--	28	<.5	--	--	--	170
AUG. 06...	.01	0	0	10	420	9	<.5	10	2	1.9	40
SEP. 05...	--	0	<10	10	--	7	<.5	--	--	--	10

CHEMICAL ANALYSES OF COMPOSITED SAMPLES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

NARRAGANSETT BAY

01109145 - MOUNT HOPE BAY NEAR TIVERTON R I (LAT 41 40 25 LONG 071 12 50)

DATE	TOTAL ALUMINUM (AL) (UG/L) (01105)	TOTAL IRON (FE) (UG/L) (01045)	TOTAL MANGANESE (MN) (UG/L) (01055)	TOTAL BARIUM (BA) (UG/L) (01007)	TOTAL BERYLLIUM (BE) (UG/L) (01012)	TOTAL BISMUTH (BI) (UG/L) (01017)	TOTAL BORON (B) (UG/L) (01022)	TOTAL CADMIUM (CD) (UG/L) (01027)	TOTAL CHROMIUM (CR) (UG/L) (01034)	TOTAL COBALT (CO) (UG/L) (01037)	TOTAL COPPER (CU) (UG/L) (01042)	TOTAL GALLIUM (GA) (UG/L) (01122)
JAN., 1974 15-31	1000	<440	<260	<90	<130	<350	2700	<200	<200	<260	<90	<180
FEB. 01-28	1000	<440	<260	<90	<130	<350	2700	<200	<200	<260	<90	<180
MAR. 01-31	1000	<440	<260	<90	<130	<350	2700	<200	<200	<260	<90	<180
APR. 01-30	1000	<440	<260	<90	<130	<350	2700	<200	<200	<260	<90	<180
MAY 01-31	1000	<440	<260	<90	<130	<350	2700	<200	<200	<260	<90	<180
JUNE 01-11	1000	<440	<260	<90	<130	<350	2700	<200	<200	<260	<90	<180

01113920 - SEEKONK RIVER AT PROVIDENCE, R.I. (LAT 41 49 02 LONG 071 23 16)

DATE	TOTAL ALUMINUM (AL) (UG/L) (01105)	TOTAL IRON (FE) (UG/L) (01045)	TOTAL MANGANESE (MN) (UG/L) (01055)	TOTAL BARIUM (BA) (UG/L) (01007)	TOTAL BERYLLIUM (BE) (UG/L) (01012)	TOTAL BISMUTH (BI) (UG/L) (01017)	TOTAL BORON (B) (UG/L) (01022)	TOTAL CADMIUM (CD) (UG/L) (01027)	TOTAL CHROMIUM (CR) (UG/L) (01034)	TOTAL COBALT (CO) (UG/L) (01037)	TOTAL COPPER (CU) (UG/L) (01042)	TOTAL GALLIUM (GA) (UG/L) (01122)
JAN., 1974 15-31	650	<350	<220	<75	<110	<300	2100	<160	<160	<220	80	<150
FEB. 01-28	650	<350	<220	<75	<110	<300	2100	<160	<160	<220	80	<150
MAR. 01-31	650	<350	<220	<75	<110	<300	2100	<160	<160	<220	80	<150
APR. 01-30	650	<350	<220	<75	<110	<300	2100	<160	<160	<220	80	<150
MAY 01-31	650	<350	<220	<75	<110	<300	2100	<160	<160	<220	80	<150
JUNE 01-11	650	<350	<220	<75	<110	<300	2100	<160	<160	<220	80	<150

01115050 - PROVIDENCE R OFF FIELDS PT NR PROVIDENCE, R.I. (LAT 41 47 15 LONG 071 22 35)

DATE	TOTAL ALUMINUM (AL) (UG/L) (01105)	TOTAL IRON (FE) (UG/L) (01045)	TOTAL MANGANESE (MN) (UG/L) (01055)	TOTAL BARIUM (BA) (UG/L) (01007)	TOTAL BERYLLIUM (BE) (UG/L) (01012)	TOTAL BISMUTH (BI) (UG/L) (01017)	TOTAL BORON (B) (UG/L) (01022)	TOTAL CADMIUM (CD) (UG/L) (01027)	TOTAL CHROMIUM (CR) (UG/L) (01034)	TOTAL COBALT (CO) (UG/L) (01037)	TOTAL COPPER (CU) (UG/L) (01042)	TOTAL GALLIUM (GA) (UG/L) (01122)
JAN., 1974 15-31	800	<400	<250	<85	<120	<330	2600	<180	<180	<250	<85	<170
FEB. 01-28	800	<400	<250	<85	<120	<330	2600	<180	<180	<250	<85	<170
MAR. 01-31	800	<400	<250	<85	<120	<330	2600	<180	<180	<250	<85	<170
APR. 01-30	800	<400	<250	<85	<120	<330	2600	<180	<180	<250	<85	<170
MAY 01-31	800	<400	<250	<85	<120	<330	2600	<180	<180	<250	<85	<170
JUNE 01-11	800	<400	<250	<85	<120	<330	2600	<180	<180	<250	<85	<170

01117160 - EAST PASSAGE NARRAGANSETT BAY NR JAMESTOWN, R.I. (LAT 41 30 45 LONG 071 21 00)

DATE	TOTAL ALUMINUM (AL) (UG/L) (01105)	TOTAL IRON (FE) (UG/L) (01045)	TOTAL MANGANESE (MN) (UG/L) (01055)	TOTAL BARIUM (BA) (UG/L) (01007)	TOTAL BERYLLIUM (BE) (UG/L) (01012)	TOTAL BISMUTH (BI) (UG/L) (01017)	TOTAL BORON (B) (UG/L) (01022)	TOTAL CADMIUM (CD) (UG/L) (01027)	TOTAL CHROMIUM (CR) (UG/L) (01034)	TOTAL COBALT (CO) (UG/L) (01037)	TOTAL COPPER (CU) (UG/L) (01042)	TOTAL GALLIUM (GA) (UG/L) (01122)
JAN., 1974 15-31	700	<400	<300	<100	<140	<400	3400	<210	<210	<300	<100	<200
FEB. 01-28	700	<400	<300	<100	<140	<400	3400	<210	<210	<300	<100	<200
MAR. 01-31	700	<400	<300	<100	<140	<400	3400	<210	<210	<300	<100	<200
APR. 01-30	700	<400	<300	<100	<140	<400	3400	<210	<210	<300	<100	<200
MAY 01-31	700	<400	<300	<100	<140	<400	3400	<210	<210	<300	<100	<200
JUNE 01-11	700	<400	<300	<100	<140	<400	3400	<210	<210	<300	<100	<200

CHEMICAL ANALYSES OF COMPOSITED SAMPLES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TOTAL GER-MANIUM (GE) (UG/L) (01127)	TOTAL LITHIUM (LI) (UG/L) (01132)	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MOLYB-DENUM (MO) (UG/L) (01062)	TOTAL NICKEL (NI) (UG/L) (01067)	TOTAL SILVER (AG) (UG/L) (01077)	TOTAL STRON-TIUM (SR) (UG/L) (01082)	TOTAL VANA-DIUM (V) (UG/L) (01087)	TOTAL ZINC (ZN) (UG/L) (01092)	TOTAL TIN (SN) (UG/L) (01102)	TOTAL TI-TANIUM (TI) (UG/L) (01152)	TOTAL ZIR-CONIUM (ZR) (UG/L) (01162)
NARRAGANSETT BAY												
01109145 - MOUNT HOPE BAY NEAR TIVERTON R I (LAT 41 40 25 LONG 071 12 50)												
JAN., 1974 15-31	<440	170	<440	<180	<400	<45	7600	<200	<200	<440	<440	<600
FEB. 01-28	<440	170	<440	<180	<400	<45	7600	<200	<200	<440	<440	<600
MAR. 01-31	<440	170	<440	<180	<400	<45	7600	<200	<200	<440	<440	<600
APR. 01-30	<440	170	<440	<180	<400	<45	7600	<200	<200	<440	<440	<600
MAY 01-31	<440	170	<440	<180	<400	<45	7600	<200	<200	<440	<440	<600
JUNE 01-11	<440	170	<440	<180	<400	<45	7600	<200	<200	<440	<440	<600
01113920 - SEEKONK RIVER AT PROVIDENCE, R.I. (LAT 41 49 02 LONG 071 23 16)												
JAN., 1974 15-31	<370	150	<370	<150	<350	<35	6700	<160	<160	<370	<370	<500
FEB. 01-28	<370	150	<370	<150	<350	<35	6700	<160	<160	<370	<370	<500
MAR. 01-31	<370	150	<370	<150	<350	<35	6700	<160	<160	<370	<370	<500
APR. 01-30	<370	150	<370	<150	<350	<35	6700	<160	<160	<370	<370	<500
MAY 01-31	<370	150	<370	<150	<350	<35	6700	<160	<160	<370	<370	<500
JUNE 01-11	<370	150	<370	<150	<350	<35	6700	<160	<160	<370	<370	<500
01115050 - PROVIDENCE R OFF FIELDS PT NR PROVIDENCE, R.I. (LAT 41 47 15 LONG 071 22 35)												
JAN., 1974 15-31	<410	150	<400	<170	<400	<40	7800	<18	<180	<400	<400	<580
FEB. 01-28	<410	150	<400	<170	<400	<40	7800	<18	<180	<400	<400	<580
MAR. 01-31	<410	150	<400	<170	<400	<40	7800	<18	<180	<400	<400	<580
APR. 01-30	<410	150	<400	<170	<400	<40	7800	<18	<180	<400	<400	<580
MAY 01-31	<410	150	<400	<170	<400	<40	7800	<18	<180	<400	<400	<580
JUNE 01-11	<410	150	<400	<170	<400	<40	7800	<18	<180	<400	<400	<580
01117160 - EAST PASSAGE NARRAGANSETT BAY NR JAMESTOWN, R.I. (LAT 41 30 45 LONG 071 21 00)												
JAN., 1974 15-31	<500	240	<500	<200	<400	<50	8900	<210	<210	<500	<500	<680
FEB. 01-28	<500	240	<500	<200	<400	<50	8900	<210	<210	<500	<500	<680
MAR. 01-31	<500	240	<500	<200	<400	<50	8900	<210	<210	<500	<500	<680
APR. 01-30	<500	240	<500	<200	<400	<50	8900	<210	<210	<500	<500	<680
MAY 01-31	<500	240	<500	<200	<400	<50	8900	<210	<210	<500	<500	<680
JUNE 01-11	<500	240	<500	<200	<400	<50	8900	<210	<210	<500	<500	<680

ANALYSES OF SAMPLES COLLECTED AT PARTIAL-RECORD STATIONS

RADIOCHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

UNITS OF MEASUREMENT: GROSS ALPHA RADIATION, AS BOTH MICROGRAMS AND PICOCURIES OF URANIUM EQUIVALENT PER LITER OF WATER; GROSS BETA RADIATION AS BOTH STRONTIUM-90/YTTRIUM-90 AND CESIUM-137, IN PICOCURIES PER LITER OF WATER.

DATE	DIS-SOLVED GROSS ALPHA AS U-NAT. (UG/L)	DIS-SOLVED GROSS BETA AS SR90 /Y90 (PC/L)	DIS-SOLVED GROSS BETA AS CS-137 (PC/L)	TOTAL FILT-RABLE RESIDUE (MG/L)	SUS-PENDED GROSS ALPHA AS U-NAT. (UG/L)	SUS-PENDED GROSS BETA AS SR90 /Y90 (PC/L)	SUS-PENDED GROSS BETA AS CS-137 (PC/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)
CONNECTICUT RIVER BASIN								
01184000 - CONNECTICUT R AT THOMPSONVILLE CONN (LAT 41 59 14 LONG 072 36 21)								
MAR., 1974 14...	<.6	2.0	2.5	58	.9	.7	.8	12
ST. LAWRENCE RIVER BASIN								
04294402 - LAKE CHAMPLAIN (EAST BAY) NEAR WHITEHALL, N.Y. (LAT 43 34 55 LONG 073 25 19)								
AUG., 1974 06...	<1.0	2.6	3.2	120	2.0	2.4	2.8	40
04294408 - LAKE CHAMPLAIN NEAR TICONDEROGA NY (LAT 43 50 06 LONG 073 23 16)								
AUG., 1974 06...	1.1	2.7	3.5	110	.6	.7	.8	13
04294410 - LAKE CHAMPLAIN NEAR CROWN POINT NY (LAT 43 55 25 LONG 073 24 20)								
AUG., 1974 06...	1.8	2.8	3.5	110	<.4	.8	.9	14

ANALYSES OF SAMPLES COLLECTED AT PARTIAL-RECORD STATIONS

PESTICIDE ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

MERRIMACK RIVER BASIN

01090100 - MERRIMACK RIVER AT HOOKSETT, N.H. (LAT 43 05 45 LONG 071 27 49)

DATE	ALDRIN (UG/L)	CHLOR-DANE (UG/L)	DDD (UG/L)	DDE (UG/L)	DDT (UG/L)	DI-AZINON (UG/L)	DI-ELDRIN (UG/L)	ENDRIN (UG/L)	ETHION (UG/L)	HEPTA-CHLOR (UG/L)	HEPTA-CHLOR EPOXIDE (UG/L)
SEP., 1974 30...	.00	.0	.00	.00	.00	--	.00	.00	--	.00	.00

01094250 - MERRIMACK RIVER AT NASHUA, N.H. (LAT 42 46 02 LONG 071 26 50)

DATE	ALDRIN (UG/L)	CHLOR-DANE (UG/L)	DDD (UG/L)	DDE (UG/L)	DDT (UG/L)	DI-AZINON (UG/L)	DI-ELDRIN (UG/L)	ENDRIN (UG/L)	ETHION (UG/L)	HEPTA-CHLOR (UG/L)	HEPTA-CHLOR EPOXIDE (UG/L)
SEP., 1974 30...	.00	.0	.00	.00	.00	--	.00	.00	--	.00	.00

CONNECTICUT RIVER BASIN

01184000 - CONNECTICUT R AT THOMPSONVILLE CONN (LAT 41 59 14 LONG 072 36 21)

DATE	ALDRIN (UG/L)	CHLOR-DANE (UG/L)	DDD (UG/L)	DDE (UG/L)	DDT (UG/L)	DI-AZINON (UG/L)	DI-ELDRIN (UG/L)	ENDRIN (UG/L)	ETHION (UG/L)	HEPTA-CHLOR (UG/L)	HEPTA-CHLOR EPOXIDE (UG/L)
OCT., 1973 12...	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00	.00

ST. LAWRENCE RIVER BASIN

04294402 - LAKE CHAMPLAIN (EAST BAY) NEAR WHITEHALL, N.Y. (LAT 43 34 55 LONG 073 25 19)

DATE	ALDRIN (UG/L)	CHLOR-DANE (UG/L)	DDD (UG/L)	DDE (UG/L)	DDT (UG/L)	DI-AZINON (UG/L)	DI-ELDRIN (UG/L)	ENDRIN (UG/L)	ETHION (UG/L)	HEPTA-CHLOR (UG/L)	HEPTA-CHLOR EPOXIDE (UG/L)
MAY , 1974 29...	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00	.00

04294408 - LAKE CHAMPLAIN NEAR TICONDEROGA NY (LAT 43 50 06 LONG 073 23 16)

DATE	ALDRIN (UG/L)	CHLOR-DANE (UG/L)	DDD (UG/L)	DDE (UG/L)	DDT (UG/L)	DI-AZINON (UG/L)	DI-ELDRIN (UG/L)	ENDRIN (UG/L)	ETHION (UG/L)	HEPTA-CHLOR (UG/L)	HEPTA-CHLOR EPOXIDE (UG/L)
MAY , 1974 29...	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00	.00

04294410 - LAKE CHAMPLAIN NEAR CROWN POINT NY (LAT 43 55 25 LONG 073 24 20)

DATE	ALDRIN (UG/L)	CHLOR-DANE (UG/L)	DDD (UG/L)	DDE (UG/L)	DDT (UG/L)	DI-AZINON (UG/L)	DI-ELDRIN (UG/L)	ENDRIN (UG/L)	ETHION (UG/L)	HEPTA-CHLOR (UG/L)	HEPTA-CHLOR EPOXIDE (UG/L)
MAY , 1974 29...	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00	.00

CONNECTICUT RIVER BASIN

01184000 - CONNECTICUT R AT THOMPSONVILLE CONN (LAT 41 59 14 LONG 072 36 21)

DATE	ALDRIN IN BOTTOM DE-POSITS (UG/KG)	CHLOR-DANE IN BOTTOM DE-POSITS (UG/KG)	DDD IN BOTTOM DE-POSITS (UG/KG)	DDE IN BOTTOM DE-POSITS (UG/KG)	DDT IN BOTTOM DE-POSITS (UG/KG)	DI-AZINON IN BOTTOM DE-POSITS (UG/KG)	DI-ELDRIN IN BOTTOM DE-POSITS (UG/KG)	ENDRIN IN BOTTOM DE-POSITS (UG/KG)	ETHION IN BOTTOM DE-POSITS (UG/KG)	HEPTA-CHLOR IN BOTTOM DE-POSITS (UG/KG)	HEPTA-CHLOR EPOXIDE IN BOT-TOM DE-POSITS (UG/KG)
OCT., 1973 12...	.0	2	.4	.7	.0	--	.4	.0	--	.0	.0

ST. LAWRENCE RIVER BASIN

04294402 - LAKE CHAMPLAIN (EAST BAY) NEAR WHITEHALL, N.Y. (LAT 43 34 55 LONG 073 25 19)

DATE	ALDRIN IN BOTTOM DE-POSITS (UG/KG)	CHLOR-DANE IN BOTTOM DE-POSITS (UG/KG)	DDD IN BOTTOM DE-POSITS (UG/KG)	DDE IN BOTTOM DE-POSITS (UG/KG)	DDT IN BOTTOM DE-POSITS (UG/KG)	DI-AZINON IN BOTTOM DE-POSITS (UG/KG)	DI-ELDRIN IN BOTTOM DE-POSITS (UG/KG)	ENDRIN IN BOTTOM DE-POSITS (UG/KG)	ETHION IN BOTTOM DE-POSITS (UG/KG)	HEPTA-CHLOR IN BOTTOM DE-POSITS (UG/KG)	HEPTA-CHLOR EPOXIDE IN BOT-TOM DE-POSITS (UG/KG)
MAY , 1974 29...	.0	0	.0	.2	.0	.0	.0	.0	.0	.0	.0
AUG. 06...	.0	0	1.8	.9	.0	.0	.2	.0	.0	.0	.0

04294408 - LAKE CHAMPLAIN NEAR TICONDEROGA NY (LAT 43 50 06 LONG 073 23 16)

DATE	ALDRIN IN BOTTOM DE-POSITS (UG/KG)	CHLOR-DANE IN BOTTOM DE-POSITS (UG/KG)	DDD IN BOTTOM DE-POSITS (UG/KG)	DDE IN BOTTOM DE-POSITS (UG/KG)	DDT IN BOTTOM DE-POSITS (UG/KG)	DI-AZINON IN BOTTOM DE-POSITS (UG/KG)	DI-ELDRIN IN BOTTOM DE-POSITS (UG/KG)	ENDRIN IN BOTTOM DE-POSITS (UG/KG)	ETHION IN BOTTOM DE-POSITS (UG/KG)	HEPTA-CHLOR IN BOTTOM DE-POSITS (UG/KG)	HEPTA-CHLOR EPOXIDE IN BOT-TOM DE-POSITS (UG/KG)
MAY , 1974 29...	.0	0	5.1	.0	.0	.0	.7	.0	.0	.0	.0
AUG. 06...	.0	0	8.3	2.6	.0	.0	.4	.0	.0	.0	.0

04294410 - LAKE CHAMPLAIN NEAR CROWN POINT NY (LAT 43 55 25 LONG 073 24 20)

DATE	ALDRIN IN BOTTOM DE-POSITS (UG/KG)	CHLOR-DANE IN BOTTOM DE-POSITS (UG/KG)	DDD IN BOTTOM DE-POSITS (UG/KG)	DDE IN BOTTOM DE-POSITS (UG/KG)	DDT IN BOTTOM DE-POSITS (UG/KG)	DI-AZINON IN BOTTOM DE-POSITS (UG/KG)	DI-ELDRIN IN BOTTOM DE-POSITS (UG/KG)	ENDRIN IN BOTTOM DE-POSITS (UG/KG)	ETHION IN BOTTOM DE-POSITS (UG/KG)	HEPTA-CHLOR IN BOTTOM DE-POSITS (UG/KG)	HEPTA-CHLOR EPOXIDE IN BOT-TOM DE-POSITS (UG/KG)
MAY , 1974 29...	.0	0	2.5	--	.0	.0	.2	.0	.0	.0	.0
AUG. 06...	.0	0	7.6	1.6	1.1	.0	.3	.0	.0	.0	.0

ANALYSES OF SAMPLES COLLECTED AT PARTIAL-RECORD STATIONS

PESTICIDE ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	LINDANE (UG/L)	MALA-THION (UG/L)	METHYL PARA-THION (UG/L)	METHYL TRI-THION (UG/L)	PARA-THION (UG/L)	TOX-APHENE (UG/L)	TRI-THION (UG/L)	PCB (UG/L)	2,4-D (UG/L)	2,4,5-T (UG/L)	SILVEX (UG/L)
MERRIMACK RIVER BASIN											
01090100 - MERRIMACK RIVER AT HOOKSETT, N.H. (LAT 43 05 45 LONG 071 27 49)											
SEP., 1974 30...	.00	--	--	--	--	0	--	.0	--	--	--
01094250 - MERRIMACK RIVER AT NASHUA, N.H. (LAT 42 46 02 LONG 071 26 50)											
SEP., 1974 30...	.00	--	--	--	--	0	--	.0	--	--	--
CONNECTICUT RIVER BASIN											
01184000 - CONNECTICUT R AT THOMPSONVILLE CONN (LAT 41 59 14 LONG 072 36 21)											
OCT., 1973 12...	.00	.00	.00	.00	.00	0	.00	.0	.00	.00	.00
ST. LAWRENCE RIVER BASIN											
04294402 - LAKE CHAMPLAIN (EAST BAY) NEAR WHITEHALL, N.Y. (LAT 43 34 55 LONG 073 25 19)											
MAY , 1974 29...	.00	.00	.00	.00	.00	0	.00	.0	.07	.00	.00
04294408 - LAKE CHAMPLAIN NEAR TICONDEROGA NY (LAT 43 50 06 LONG 073 23 16)											
MAY , 1974 29...	.00	.00	.00	.00	.00	0	.00	.0	.00	.00	.00
04294410 - LAKE CHAMPLAIN NEAR CROWN POINT NY (LAT 43 55 25 LONG 073 24 20)											
MAY , 1974 29...	.00	.00	.00	.00	.00	0	.00	.0	.00	.00	.00

DATE	LINDANE IN BOTTOM DE-POSITS (UG/KG)	MALA-THION IN BOTTOM DE-POSITS (UG/KG)	METHYL PARA-THION IN BOT-TOM DE-POSITS (UG/KG)	METHYL TRI-THION IN BOT-TOM DE-POSITS (UG/KG)	PARA-THION IN BOTTOM DE-POSITS (UG/KG)	TOX-APHENE IN BOTTOM DE-POSITS (UG/KG)	TRI-THION IN BOTTOM DE-POSITS (UG/KG)	PCB IN BOTTOM DE-POSITS (UG/KG)	2,4-D IN BOTTOM DE-POSITS (UG/KG)	2,4,5-T IN BOTTOM DE-POSITS (UG/KG)	SILVEX IN BOTTOM DE-POSITS (UG/KG)
CONNECTICUT RIVER BASIN											
01184000 - CONNECTICUT R AT THOMPSONVILLE CONN (LAT 41 59 14 LONG 072 36 21)											
OCT., 1973 12...	.0	--	--	--	--	0	--	25	0	0	0
ST. LAWRENCE RIVER BASIN											
04294402 - LAKE CHAMPLAIN (EAST BAY) NEAR WHITEHALL, N.Y. (LAT 43 34 55 LONG 073 25 19)											
MAY , 1974 29...	.0	.0	.0	.0	.0	0	.0	0	--	--	--
AUG. 06...	.0	.0	.0	.0	.0	0	.0	37	--	--	--
04294408 - LAKE CHAMPLAIN NEAR TICONDEROGA NY (LAT 43 50 06 LONG 073 23 16)											
MAY , 1974 29...	.0	.0	.0	.0	.0	0	.0	40	--	--	--
AUG. 06...	.0	.0	.0	.0	.0	0	.0	200	--	--	--
04294410 - LAKE CHAMPLAIN NEAR CROWN POINT NY (LAT 43 55 25 LONG 073 24 20)											
MAY , 1974 29...	.0	.0	.0	.0	.0	0	.0	7	--	--	--
AUG. 06...	.0	.0	.0	.0	.0	0	.0	70	--	--	--

INSTANTANEOUS SUSPENDED SEDIMENT AND SELECTED CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	TURBIDITY (JTU)	SPECIFIC CONDUCTANCE (MICROMHOS)	DISSOLVED CHLORIDE (CL) (MG/L)
MERRIMACK RIVER BASIN								
01076500 - PEMIGEWASSET RIVER AT PLYMOUTH, N.H. (LAT 43 45 33 LONG 071 41 10)								
OCT., 1973 26...	1015	6.0	297	5	4.0	3	57	5.5
NOV. 26...	1105	2.0	1580	5	21	2	38	2.0
FEB., 1974 25...	1130	.0	1410	56	213	13	47	5.0
MAR. 25...	1130	--	1590	8	34	2	48	6.0
APR. 26...	1100	5.0	4130	11	123	2	32	2.0
MAY 28...	1125	9.0	3200	20	173	20	34	2.5
JUNE 25...	1050	15.5	775	7	15	1	45	5.0
AUG. 26...	1050	21.0	260	4	2.8	1	55	6.5
01089000 - SOUCOOK RIVER NEAR CONCORD, N. H. (LAT 43 14 22 LONG 071 27 44)								
NOV., 1973 30...	1135	1.1	84	5	1.1	3	50	5.0
FEB., 1974 14...	1400	.0	93	13	3.3	3	52	6.5
APR. 03...	1130	3.0	271	3	2.2	2	40	5.0
JUNE 27...	1300	14.5	33	21	1.9	3	56	8.0
AUG. 14...	1240	19.5	4.9	4	.05	1	73	12
SEP. 19...	1215	15.0	3.9	2	.02	1	69	10
01094000 - SOUHEGAN RIVER AT MERRIMACK, N. H. (LAT 42 51 27 LONG 071 30 24)								
OCT., 1973 29...	1400	3.5	34	7	.64	3	112	22
DEC. 06...	1120	1.1	195	7	3.7	3	72	11
MAR., 1974 19...	1130	.0	773	2	4.2	2	48	7.5
APR. 23...	1400	13.5	345	1	.93	1	63	12
JULY 02...	1320	21.0	96	7	1.8	2	77	14
AUG. 12...	1230	23.5	23	10	.62	1	106	20
01097000 - ASSABET RIVER AT MAYNARD, MASS. (LAT 42 25 55 LONG 071 27 01)								
NOV., 1973 19...	1310	6.0	53	3	.43	--	--	--
MAR., 1974 14...	1105	2.0	179	1	.48	--	--	--
01099500 - CONCORD RIVER BELOW RIVER MEADOW BROOK, AT LOWELL, MASS. (LAT 42 38 12 LONG 071 18 09)								
NOV., 1973 20...	0930	4.0	217	4	2.3	7	208	42

ANALYSES OF SAMPLES COLLECTED AT PARTIAL-RECORD STATIONS

INSTANTANEOUS SUSPENDED SEDIMENT AND SELECTED CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974.--Continued

DATE	TIME	TEMPER-ATURE (DEG C)	INSTAN-TANEOUS DIS-CHARGE (CFS)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)	TUR-BID-ITY (JTU)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)
TAUNTON RIVER BASIN								
01108000 - TAUNTON RIVER AT STATE FARM, NEAR BRIDGEWATER, MASS. (LAT 41 56 05 LONG 070 57 18)								
NOV., 1973 09...	1500	7.0	221	9	5.4	5	136	24
JAN., 1974 21...	1230	2.5	867	4	9.4	4	147	30
FEB. 28...	1120	2.5	881	4	9.5	8	416	47
MAR. 27...	1330	5.0	743	7	14	3	126	18
MAY 07...	1400	13.0	421	22	25	3	126	23
JUNE 13...	1330	17.0	164	7	3.1	2	141	24
PAWCATUCK RIVER BASIN								
01117800 - WOOD RIVER NEAR ARCADIA, R. I. (LAT 41 34 26 LONG 071 43 16)								
NOV., 1973 09...	1015	5.0	39	1	.11	1	43	4.5
CONNECTICUT RIVER BASIN								
01135500 - PASSUMPSIC RIVER AT PASSUMPSIC, VT. (LAT 44 21 56 LONG 072 02 23)								
OCT., 1973 23...	1430	14.0	481	241	3.8	5	158	5.5
NOV. 26...	1530	4.0	1040	8	22	6	123	3.0
01137500 - AMMONOOSUC RIVER AT BETHLEHEM JUNCTION, N. H. (LAT 44 16 08 LONG 071 37 52)								
JUNE, 1974 03...	1100	11.0	292	1	.79	--	--	--
01144000 - WHITE RIVER AT WEST HARTFORD, VT. (LAT 43 42 51 LONG 072 25 07)								
OCT., 1973 23...	1300	9.5	229	3	1.9	9	209	10
NOV. 30...	1030	4.0	1410	32	122	10	103	2.5
JAN., 1974 18...	0900	.0	772	1	2.1	9	160	6.5
FEB. 26...	1435	.0	1570	8	34	10	121	4.5
MAR. 25...	1350	1.0	1440	40	156	10	62	2.0
MAY 03...	0930	4.5	2370	12	77	--	--	--
JUNE 24...	1245	22.0	548	3	4.4	1	173	--
01153500 - WILLIAMS RIVER AT BROCKWAYS MILLS, VT. (LAT 43 12 31 LONG 072 31 05)								
OCT., 1973 09...	1515	11.0	23	1	.06	5	123	14
APR., 1974 01...	1640	4.5	197	10	5.3	4	75	9.5
01167800 - BEAVER BROOK AT WILMINGTON, VT. (LAT 42 51 38 LONG 072 51 04)								
OCT., 1973 25...	0915	7.0	1.2	2	.01	3	80	9.5
DEC. 05...	1610	2.0	19	9	.46	5	44	2.5
FEB., 1974 05...	1340	.5	8.6	1	.02	3	49	5.0
MAR. 19...	1340	.5	14	3	.11	2	47	5.0

ANALYSES OF SAMPLES COLLECTED AT PARTIAL-RECORD STATIONS

INSTANTANEOUS SUSPENDED SEDIMENT AND SELECTED CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974.--Continued

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	TURBIDITY (JTU)	SPECIFIC CONDUCTANCE (MICROMHOS)	DISSOLVED CHLORIDE (CL) (MG/L)
CONNECTICUT RIVER BASIN.--CONTINUED								
01176000 - QUABOAG RIVER AT WEST BRIMFIELD, MASS. (LAT 42 10 56 LONG 072 15 51)								
OCT., 1973 24...	1325	11.5	39	4	.42	3	107	16
01181000 - WEST BRANCH WESTFIELD RIVER AT HUNTINGTON, MASS. (LAT 42 14 14 LONG 072 53 46)								
OCT., 1973 03...	0950	13.0	20	10	.54	3	93	9.0
NOV. 21...	1040	1.5	45	1	.12	2	83	7.0
01183500 - WESTFIELD RIVER NEAR WESTFIELD, MASS. (LAT 42 06 24 LONG 072 41 58)								
OCT., 1973 16...	0950	12.0	137	5	1.8	5	143	14
ST. LAWRENCE RIVER BASIN								
04282500 - OTTER CREEK AT MIDDLEBURY, VT. (LAT 44 00 47 LONG 073 10 06)								
OCT., 1973 16...	0955	9.0	263	10	7.5	4	206	9.5
DEC. 06...	1105	4.5	1270	77	264	38	124	3.5
APR., 1974 04...	1400	4.0	2100	48	272	15	148	7.0
MAY 10...	0900	8.0	1850	6	30	2	145	6.5
JUNE 27...	1155	18.0	653	6	11	--	--	--
04288000 - MAD RIVER NEAR MORETOWN, VT. (LAT 44 16 42 LONG 072 44 37)								
OCT., 1973 16...	1500	9.0	137	14	5.3	8	72	4.5
NOV. 27...	1405	3.0	193	2	1.0	6	66	3.0
JAN., 1974 08...	1145	.0	181	3	1.5	3	37	1.0
FEB. 13...	1145	.0	132	2	.71	2	72	5.5
MAR. 26...	1220	.0	225	3	1.8	3	68	4.5
APR. 30...	1015	--	933	31	78	3	40	2.0
JUNE 26...	1545	16.5	116	1	.31	1	66	5.0
04292500 - LAMOILLE RIVER AT EAST GEORGIA, VT. (LAT 44 40 45 LONG 073 04 23)								
OCT., 1973 30...	1500	9.5	530	5	6.5	2	127	6.5
DEC. 05...	1200	4.0	1350	1	3.6	7	111	5.0
04293500 - MISSISQUOI RIVER NEAR RICHFORD, VT. (LAT 44 57 30 LONG 072 41 55)								
OCT., 1973 29...	1715	9.0	292	20	16	6	106	6.0
DEC. 04...	1300	3.0	960	5	13	5	89	4.0

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

CHEMICAL ANALYSES OF SURFACE WATER IN NASHUA RIVER BASIN, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)
01094340 - WHITMAN RIVER NEAR WESTMINSTER, MASS. (LAT 42 33 35 LONG 071 52 02)											
JAN., 1974 08...	1245	40	5.2	390	150	3.4	.7	6.7	.9	1	0
01094380 - PHILLIPS BROOK NEAR WESTMINSTER, MASS. (LAT 42 35 28 LONG 071 51 41)											
JAN., 1974 08...	1330	E20	5.9	230	60	3.0	.7	6.7	.8	3	0
01094450 - NORTH NASHUA RIVER AT NORTH LEOMINSTER, MASS. (LAT 42 32 32 LONG 071 44 47)											
JAN., 1974 08...	1400	170	6.0	870	140	7.0	1.3	17	2.1	8	0
01094460 - MONOOSNOC BROOK AT LEOMINSTER, MASS. (LAT 42 31 47 LONG 071 45 08)											
JAN., 1974 08...	1440	10	5.9	250	110	5.4	.8	17	1.1	6	0
01094480 - FALL BROOK AT LEOMINSTER, MASS. (LAT 42 30 32 LONG 071 44 47)											
JAN., 1974 08...	1510	11	6.4	320	90	16	1.8	14	2.2	19	0
01094720 - NORTH NASHUA R AT N. MAIN ST., LANCASTER, MASS. (LAT 42 28 23 LONG 071 40 59)											
JAN., 1974 08...	1550	240	6.4	870	130	7.3	1.3	16	2.0	17	0
01094760 - WAUSHACUM BROOK NEAR WEST BOYLSTON, MASS. (LAT 42 23 49 LONG 071 46 48)											
JAN., 1974 08...	1115	14	4.5	100	20	10	1.9	16	1.7	18	0
01095220 - STILLWATER RIVER NEAR STERLING, MASS. (LAT 42 24 39 LONG 071 47 30)											
JAN., 1974 08...	1045	55	6.3	80	30	4.0	.8	4.3	.9	3	0
01095400 - QUINAPOXET R ABOVE SHAFT #1, AT OAKDALE, MASS. (LAT 42 23 11 LONG 071 48 23)											
JAN., 1974 08...	1030	E60	5.7	160	30	4.3	.9	6.6	1.0	6	0
01095520 - SOUTH BRANCH NASHUA RIVER AT S. LANCASTER, MASS. (LAT 42 26 18 LONG 071 40 54)											
JAN., 1974 09...	1015	40	5.9	500	170	9.3	2.3	14	2.4	24	0
01095880 - NONACOICUS BROOK NEAR AYER, MASS. (LAT 42 33 43 LONG 071 36 39)											
JAN., 1974 09...	1415	E30	3.2	230	60	9.0	1.8	15	1.3	16	0
01095915 - MULPUS BROOK NEAR SHIRLEY, MASS. (LAT 42 34 26 LONG 071 37 43)											
JAN., 1974 09...	1310	30	4.8	80	40	5.1	1.3	10	1.0	7	0

E Estimated.

CHEMICAL ANALYSES OF SURFACE WATER IN NASHUA RIVER BASIN, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974.--Continued

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)
01095920 - NASHUA RIVER NEAR AYER, MASS. (LAT 42 34 42 LONG 071 36 35)											
JAN., 1974 09...	1250	290	6.4	600	150	8.7	1.8	16	2.0	18	0
01096050 - SQUANNACOOK RIVER NEAR SHIRLEY, MASS. (LAT 42 34 56 LONG 071 36 37)											
JAN., 1974 09...	1150	E150	7.1	170	80	3.9	.8	7.1	.9	7	0
01096500 - NASHUA RIVER AT EAST PEPPERELL, MASS. (LAT 42 40 03 LONG 071 34 32)											
JAN., 1974 10...	1030	330	6.4	500	130	7.5	1.6	13	1.6	16	0
FEB. 04...	0800	--	--	--	--	--	--	--	--	--	--
01096503 - NISSITISSIT RIVER AT PEPPERELL, MASS. (LAT 42 40 19 LONG 071 34 39)											
JAN., 1974 10...	1045	90	6.5	120	40	4.4	1.1	4.7	.6	10	0
01096505 - UNKETY BROOK NEAR PEPPERELL, MASS. (LAT 42 41 23 LONG 071 32 54)											
JAN., 1974 10...	1150	6.0	10	190	30	8.2	1.3	4.9	1.3	13	0

CHEMICAL ANALYSES OF SURFACE WATER IN NASHUA RIVER BASIN, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974.--Continued

DATE	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)
01094340 - WHITMAN RIVER NEAR WESTMINSTER, MASS. (LAT 42 33 35 LONG 071 52 02)										
JAN., 1974 08...	1	8.7	11	.2	.23	.00	.23	--	--	--
01094380 - PHILLIPS BROOK NEAR WESTMINSTER, MASS. (LAT 42 35 28 LONG 071 51 41)										
JAN., 1974 08...	2	7.5	10	.2	.37	.01	.38	--	--	--
01094450 - NORTH NASHUA RIVER AT NORTH LEOMINSTER, MASS. (LAT 42 32 32 LONG 071 44 47)										
JAN., 1974 08...	7	21	23	.2	.61	.01	.62	.88	--	--
01094460 - MONOOSNOC BROOK AT LEOMINSTER, MASS. (LAT 42 31 47 LONG 071 45 08)										
JAN., 1974 08...	5	9.4	27	.2	.28	.01	.29	--	--	--
01094480 - FALL BROOK AT LEOMINSTER, MASS. (LAT 42 30 32 LONG 071 44 47)										
JAN., 1974 08...	16	14	31	.1	.59	.01	.60	--	--	--
01094720 - NORTH NASHUA R AT N. MAIN ST., LANCASTER, MASS. (LAT 42 28 23 LONG 071 40 59)										
JAN., 1974 08...	14	18	21	.2	.64	.01	.65	1.3	--	--
01094760 - WAUSHACUM BROOK NEAR WEST BOYLSTON, MASS. (LAT 42 23 49 LONG 071 46 48)										
JAN., 1974 08...	15	12	28	.1	.24	.00	.24	--	--	--
01095220 - STILLWATER RIVER NEAR STERLING, MASS. (LAT 42 24 39 LONG 071 47 30)										
JAN., 1974 08...	2	8.6	6.9	.2	.44	.00	.44	--	--	--
01095400 - QUINAPOXET R ABOVE SHAFT #1, AT OAKDALE, MASS. (LAT 42 23 11 LONG 071 48 23)										
JAN., 1974 08...	5	10	11	.0	.29	.01	.30	--	--	--
01095520 - SOUTH BRANCH NASHUA RIVER AT S. LANCASTER, MASS. (LAT 42 26 18 LONG 071 40 54)										
JAN., 1974 09...	20	14	22	.4	1.9	.24	2.1	--	--	--
01095880 - NONACOICUS BROOK NEAR AYER, MASS. (LAT 42 33 43 LONG 071 36 39)										
JAN., 1974 09...	13	13	24	.2	.20	.01	.21	--	--	--
01095915 - MULPUS BROOK NEAR SHIRLEY, MASS. (LAT 42 34 26 LONG 071 37 43)										
JAN., 1974 09...	6	9.8	16	.1	.19	.01	.20	--	--	--

CHEMICAL ANALYSES OF SURFACE WATER IN NASHUA RIVER BASIN, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974.--Continued

DATE	ALKA- LINITY AS CACO3 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITRO- GEN (N) (MG/L)	TOTAL ORGANIC NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)
01095920 - NASHUA RIVER NEAR AYER, MASS. (LAT 42 34 42 LONG 071 36 35)										
JAN., 1974 09...	15	16	23	.2	1.3	.01	1.3	--	--	--
01096050 - SQUANNACOOK RIVER NEAR SHIRLEY, MASS. (LAT 42 34 56 LONG 071 36 37)										
JAN., 1974 09...	6	8.1	9.9	.1	.34	.01	.35	.49	--	--
01096500 - NASHUA RIVER AT EAST PEPPERELL, MASS. (LAT 42 40 03 LONG 071 34 32)										
JAN., 1974 10...	13	13	19	.2	.96	.04	1.0	--	--	--
FEB. 04...	--	--	--	--	.21	.01	.22	.35	.25	.82
01096503 - NISSITISSIT RIVER AT PEPPERELL, MASS. (LAT 42 40 19 LONG 071 34 39)										
JAN., 1974 10...	8	7.6	6.9	.2	.27	.01	.28	--	--	--
01096505 - UNKETY BROOK NEAR PEPPERELL, MASS. (LAT 42 41 23 LONG 071 32 54)										
JAN., 1974 10...	11	14	8.0	.1	.33	.01	.34	--	--	--

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

CHEMICAL ANALYSES OF SURFACE WATER IN NASHUA RIVER BASIN, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974.--Continued

DATE	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	CARBON DIOXIDE (CO2) (MG/L)
01094340 - WHITMAN RIVER NEAR WESTMINSTER, MASS. (LAT 42 33 35 LONG 071 52 02)										
JAN., 1974 08...	--	--	37	11	11	69	5.7	.0	--	3.2
01094380 - PHILLIPS BROOK NEAR WESTMINSTER, MASS. (LAT 42 35 28 LONG 071 51 41)										
JAN., 1974 08...	--	--	36	10	8	67	6.2	.0	--	3.0
01094450 - NORTH NASHUA RIVER AT NORTH LEOMINSTER, MASS. (LAT 42 32 32 LONG 071 44 47)										
JAN., 1974 08...	--	--	82	23	16	158	6.0	1.0	--	13
01094460 - MONOOSNOC BROOK AT LEOMINSTER, MASS. (LAT 42 31 47 LONG 071 45 08)										
JAN., 1974 08...	--	--	70	17	12	133	6.5	1.0	--	3.0
01094480 - FALL BROOK AT LEOMINSTER, MASS. (LAT 42 30 32 LONG 071 44 47)										
JAN., 1974 08...	--	--	95	47	32	181	6.9	1.0	--	3.8
01094720 - NORTH NASHUA R AT N. MAIN ST., LANCASTER, MASS. (LAT 42 28 23 LONG 071 40 59)										
JAN., 1974 08...	--	--	81	24	10	153	6.3	.0	--	14
01094760 - WAUSHACUM BROOK NEAR WEST BOYLSTON, MASS. (LAT 42 23 49 LONG 071 46 48)										
JAN., 1974 08...	--	--	83	33	18	165	6.7	.0	--	5.7
01095220 - STILLWATER RIVER NEAR STERLING, MASS. (LAT 42 24 39 LONG 071 47 30)										
JAN., 1974 08...	--	--	33	13	11	68	6.3	.0	--	2.4
01095400 - QUINAPOXET R ABOVE SHAFT #1, AT OAKDALE, MASS. (LAT 42 23 11 LONG 071 48 23)										
JAN., 1974 08...	--	--	42	14	10	74	6.4	.0	--	3.8
01095520 - SOUTH BRANCH NASHUA RIVER AT S. LANCASTER, MASS. (LAT 42 26 18 LONG 071 40 54)										
JAN., 1974 09...	--	--	82	33	13	156	6.7	2.0	--	7.7
01095880 - NONACOICUS BROOK NEAR AYER, MASS. (LAT 42 33 43 LONG 071 36 39)										
JAN., 1974 09...	--	--	75	30	17	148	6.8	.0	--	4.1
01095915 - MULPUS BROOK NEAR SHIRLEY, MASS. (LAT 42 34 26 LONG 071 37 43)										
JAN., 1974 09...	--	--	52	18	12	100	6.4	.0	--	4.5

CHEMICAL ANALYSES OF SURFACE WATER IN NASHUA RIVER BASIN, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974--Continued

DATE	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	CARBON DIOXIDE (CO2) (MG/L)
01095920 - NASHUA RIVER NEAR AYER, MASS. (LAT 42 34 42 LONG 071 36 35)										
JAN., 1974 09...	--	--	83	29	14	157	6.4	.0	--	11
01096050 - SQUANNACOOK RIVER NEAR SHIRLEY, MASS. (LAT 42 34 56 LONG 071 36 37)										
JAN., 1974 04...	--	--	41	13	7	74	6.4	.0	--	4.5
01096500 - NASHUA RIVER AT EAST PEPPERELL, MASS. (LAT 42 40 03 LONG 071 34 32)										
JAN., 1974 10...	--	--	70	25	12	132	6.5	1.0	--	8.1
FEB. 04...	.60	.04	--	--	--	74	--	.0	1.2	--
01096503 - NISSITISSIT RIVER AT PEPPERELL, MASS. (LAT 42 40 19 LONG 071 34 39)										
JAN., 1974 10...	--	--	37	16	7	63	6.6	.0	--	4.0
01096505 - UNKETY BROOK NEAR PEPPERELL, MASS. (LAT 42 41 23 LONG 071 32 54)										
JAN., 1974 10...	--	--	54	26	15	88	6.6	.0	--	5.2

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

CHEMICAL ANALYSES OF SURFACE WATER IN LOWER MERRIMACK RIVER BASIN, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)
01100000 - MERRIMACK RIVER BL CONCORD RIVER AT LOWELL,MASS. (LAT 42 38 45 LONG 071 17 56.01)											
AUG., 1974 23...	1200	1690	3.9	500	210	13	1.2	17	2.9	23	--
01100450 - MERRIMACK RIVER AT I93, NEAR METHUEN, MASS. (LAT 42 42 03 LONG 071 12 37.01)											
AUG., 1974 22...	1515	--	4.8	430	180	10	1.5	20	2.2	22	0
01100562 - SPICKET RIVER NEAR METHUEN, MASS. (LAT 42 44 35 LONG 071 12 32.01)											
AUG., 1974 22...	1100	E12	2.0	540	40	6.5	1.4	14	3.0	20	0
01100565 - SPICKET RIVER AT LAWRENCE, MASS. (LAT 42 42 33 LONG 071 09 07.01)											
AUG., 1974 22...	1300	10	2.0	350	40	10	1.9	25	3.7	19	0
01100660 - BARE MEADOW BROOK NEAR METHUEN, MASS. (LAT 42 45 32 LONG 071 08 05.01)											
AUG., 1974 23...	0930	E.20	8.2	530	300	22	4.4	28	4.0	44	0
01100670 - MERRIMACK RIVER AT I495, NEAR HAVERHILL, MASS. (LAT 42 46 06 LONG 071 07 17.01)											
AUG., 1974 21...	1145	--	4.7	360	190	7.0	1.6	21	2.4	25	0
01100684 - LITTLE RIVER AT WESTVILLE, N.H. (LAT 42 49 06 LONG 071 06 50)											
AUG., 1974 21...	1500	E.65	9.9	640	120	17	4.0	25	3.4	30	0
01100690 - LITTLE RIVER AT HAVERHILL, MASS. (LAT 42 46 38 LONG 071 05 20.01)											
AUG., 1974 21...	1345	E2.0	3.3	610	90	19	3.8	38	4.2	39	0
01100700 - EAST MEADOW RIVER NEAR HAVERHILL, MASS. (LAT 42 48 41 LONG 071 01 59.01)											
AUG., 1974 21...	1645	.39	9.9	410	60	14	2.4	9.8	2.1	38	0
01100750 - MERRIMACK RIVER AT WEST NEWBURY, MASS. (LAT 42 48 38 LONG 071 00 02.01)											
AUG., 1974 20...	1000	--	3.8	730	220	9.0	1.8	17	2.4	19	0
01100840 - POWWOW RIVER NEAR AMESBURY, MASS. (LAT 42 51 42 LONG 070 59 02.01)											
AUG., 1974 20...	1430	E1.0	2.1	710	150	5.5	1.7	9.0	1.0	13	0
01100870 - MERRIMACK RIVER AT NEWBURYPORT, MASS. (LAT 42 48 56 LONG 070 52 24.01)											
AUG., 1974 21...	0845	--	2.1	550	190	120	280	2100	100	45	0

E Estimated.

CHEMICAL ANALYSES OF SURFACE WATER IN LOWER MERRIMACK RIVER BASIN, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974.--Continued

DATE	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED ORGANIC NITRO-GEN (N) (MG/L)	DIS-SOLVED KJEL. NITRO-GEN (N) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)
01100000 - MERRIMACK RIVER BL CONCORD RIVER AT LOWELL,MASS. (LAT 42 38 45 LONG 071 17 56.01)											
AUG., 1974 23...	19	14	19	.3	.24	.01	.25	1.1	.20	1.3	.11
01100450 - MERRIMACK RIVER AT I93, NEAR METHUEN, MASS. (LAT 42 42 03 LONG 071 12 37.01)											
AUG., 1974 22...	18	17	24	.2	.44	.06	.50	1.5	.10	1.6	.11
01100562 - SPICKET RIVER NEAR METHUEN, MASS. (LAT 42 44 35 LONG 071 12 32.01)											
AUG., 1974 22...	16	11	22	.0	.42	.08	.50	2.4	.30	2.7	.68
01100565 - SPICKET RIVER AT LAWRENCE, MASS. (LAT 42 42 33 LONG 071 09 07.01)											
AUG., 1974 22...	16	14	37	.1	1.4	.08	1.5	.66	.24	.90	.60
01100660 - BARE MEADOW BROOK NEAR METHUEN, MASS. (LAT 42 45 32 LONG 071 08 05.01)											
AUG., 1974 23...	36	19	63	.2	.75	.00	.75	.20	.15	.35	.01
01100670 - MERRIMACK RIVER AT I495, NEAR HAVERHILL, MASS. (LAT 42 46 06 LONG 071 07 17.01)											
AUG., 1974 21...	21	16	24	.4	.43	.06	.49	1.1	.20	1.3	.18
01100684 - LITTLE RIVER AT WESTVILLE, N.H. (LAT 42 49 06 LONG 071 06 50)											
AUG., 1974 21...	25	13	49	1.2	.38	.00	.38	.10	.11	.21	.15
01100690 - LITTLE RIVER AT HAVERHILL, MASS. (LAT 42 46 38 LONG 071 05 20.01)											
AUG., 1974 21...	32	16	64	.2	.13	.00	.13	.18	.23	.41	.05
01100700 - EAST MEADOW RIVER NEAR HAVERHILL, MASS. (LAT 42 48 41 LONG 071 01 59.01)											
AUG., 1974 21...	31	11	16	.0	.22	.00	.22	.15	.00	.15	.01
01100750 - MERRIMACK RIVER AT WEST NEWBURY, MASS. (LAT 42 48 38 LONG 071 00 02.01)											
AUG., 1974 20...	16	15	22	.3	.45	.02	.47	.63	.13	.76	.11
01100840 - POWWOW RIVER NEAR AMESBURY, MASS. (LAT 42 51 42 LONG 070 59 02.01)											
AUG., 1974 20...	11	5.9	14	.0	.03	.00	.03	.20	.19	.39	.23
01100870 - MERRIMACK RIVER AT NEWBURYPORT, MASS. (LAT 42 48 56 LONG 070 52 24.01)											
AUG., 1974 21...	37	600	4100	.5	.37	.01	.38	.45	.14	.59	.07

CHEMICAL ANALYSES OF SURFACE WATER IN LOWER MERRIMACK RIVER BASIN, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974.--Continued

DATE	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	HARD- NESS (CA,MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	COLOR (PLAT- INUM- COBALT UNITS)
01100000 - MERRIMACK RIVER BL CONCORD RIVER AT LOWELL,MASS. (LAT 42 38 45 LONG 071 17 56.01)										
AUG., 1974 23...	.28	85	37	19	152	--	25.0	6.7	--	6
01100450 - MERRIMACK RIVER AT I93, NEAR METHUEN, MASS. (LAT 42 42 03 LONG 071 12 37.01)										
AUG., 1974 22...	.14	95	31	13	175	7.3	25.0	10.3	1.8	2
01100562 - SPICKET RIVER NEAR METHUEN, MASS. (LAT 42 44 35 LONG 071 12 32.01)										
AUG., 1974 22...	.87	77	22	6	152	6.8	22.0	4.2	5.1	20
01100565 - SPICKET RIVER AT LAWRENCE, MASS. (LAT 42 42 33 LONG 071 09 07.01)										
AUG., 1974 22...	.66	112	33	17	216	7.3	28.5	8.5	1.5	10
01100660 - BARE MEADOW BROOK NEAR METHUEN, MASS. (LAT 42 45 32 LONG 071 08 05.01)										
AUG., 1974 23...	.03	174	73	37	360	7.0	19.0	5.7	7.0	4
01100670 - MERRIMACK RIVER AT I495, NEAR HAVERHILL, MASS. (LAT 42 46 06 LONG 071 07 17.01)										
AUG., 1974 21...	.32	94	24	4	138	6.5	24.0	2.4	13	3
01100684 - LITTLE RIVER AT WESTVILLE, N.H. (LAT 42 49 06 LONG 071 06 50)										
AUG., 1974 21...	.26	140	59	34	280	7.5	22.0	11.8	1.5	5
01100690 - LITTLE RIVER AT HAVERHILL, MASS. (LAT 42 46 38 LONG 071 05 20.01)										
AUG., 1974 21...	.08	169	63	31	330	6.9	24.0	7.2	7.9	10
01100700 - EAST MEADOW RIVER NEAR HAVERHILL, MASS. (LAT 42 48 41 LONG 071 01 59.01)										
AUG., 1974 21...	.02	85	45	14	144	6.7	23.0	8.2	12	10
01100750 - MERRIMACK RIVER AT WEST NEWBURY, MASS. (LAT 42 48 38 LONG 071 00 02.01)										
AUG., 1974 20...	.37	84	30	14	149	6.6	24.0	3.4	7.6	4
01100840 - POWWOW RIVER NEAR AMESBURY, MASS. (LAT 42 51 42 LONG 070 59 02.01)										
AUG., 1974 20...	.23	47	21	10	89	7.1	24.0	6.3	1.7	20
01100870 - MERRIMACK RIVER AT NEWBURYPORT, MASS. (LAT 42 48 56 LONG 070 52 24.01)										
AUG., 1974 21...	.17	7330	1500	1400	12000	6.7	22.0	4.9	14	2

CHEMICAL ANALYSES OF SURFACE WATER IN CONNECTICUT RIVER BASIN, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAGNE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED POTAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)
01161240 - MILL BROOK NEAR WARWICK, MASS. (LAT 42 40 28 LONG 072 22 51)										
OCT., 1973										
02...	1800	3.0	--	--	.9	.3	1.0	.6	3	0
01170510 - CONNECTICUT RIVER TRIBUTARY NEAR MONTAGUE, MASS. (LAT 42 33 10 LONG 072 32 59)										
OCT., 1973										
02...	1545	6.9	--	--	5.1	.8	3.6	.9	11	0
01170720 - MILL RIVER AT NORTH HADLEY, MASS (LAT 42 23 08 LONG 072 34 53)										
OCT., 1973										
02...	1800	3.9	180	50	16	4.0	12	3.0	30	0
01170950 - MILL RIVER AT HATFIELD, MASS (LAT 42 21 59 LONG 072 36 19)										
OCT., 1973										
03...	1745	4.4	--	--	17	2.8	10	3.0	45	0
01171497 - MILL RIVER TRIBUTARY AT NORTHAMPTON, MASS. (LAT 42 19 16 LONG 072 39 15.01)										
OCT., 1973										
03...	1815	12	--	--	27	5.0	33	4.5	65	0
01177120 - SCHOOLHOUSE BROOK AT WEST SPRINGFIELD, MASS (LAT 42 08 50 LONG 072 37 51)										
OCT., 1973										
03...	1645	9.7	--	--	30	10	33	1.9	68	0
01178000 - MILL RIVER AT SPRINGFIELD, MASS. (LAT 42 05 39 LONG 072 34 03)										
OCT., 1973										
03...	1230	8.2	--	--	21	4.8	16	2.0	47	0
01183780 - THREEMILE BROOK NEAR AGAWAM, MASS (LAT 42 02 40 LONG 072 36 59)										
OCT., 1973										
03...	1530	5.9	--	--	17	5.0	17	4.0	30	0
01183810 - LONGMEADOW BROOK AT PONDSIDE RD NEAR LONGMEADOW, MASS (LAT 42 02 22 LONG 072 35 32)										
OCT., 1973										
03...	1340	9.2	--	--	15	4.1	11	1.9	33	0
01184277 - SCANTIC RIVER NEAR HAMPDEN MASS (LAT 42 02 54 LONG 072 27 16.01)										
OCT., 1973										
17...	--	11	--	--	6.3	1.8	4.6	1.4	20	0

CHEMICAL ANALYSES OF SURFACE WATER IN CONNECTICUT RIVER BASIN, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974.--Continued

DATE	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITHITE PLUS NITRATE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)
01161240 - MILL BROOK NEAR WARWICK, MASS. (LAT 42 40 28 LONG 072 22 51)									
OCT., 1973 02...	2	4.9	1.4	.1	.02	.00	.03	--	--
01170510 - CONNECTICUT RIVER TRIBUTARY NEAR MONTAGUE, MASS. (LAT 42 33 10 LONG 072 32 59)									
OCT., 1973 02...	9	5.9	4.3	.4	.86	.00	.87	--	--
01170720 - MILL RIVER AT NORTH HADLEY, MASS (LAT 42 23 08 LONG 072 34 53)									
OCT., 1973 02...	25	24	23	.3	1.0	.00	1.0	--	--
01170950 - MILL RIVER AT HATFIELD, MASS (LAT 42 21 59 LONG 072 36 19)									
OCT., 1973 03...	37	17	19	.2	.61	.01	.62	.09	.32
01171497 - MILL RIVER TRIBUTARY AT NORTHAMPTON, MASS. (LAT 42 19 16 LONG 072 39 15.01)									
OCT., 1973 03...	53	24	59	.4	1.4	.05	1.5	.21	.05
01177120 - SCHOOLHOUSE BROOK AT WEST SPRINGFIELD, MASS (LAT 42 08 50 LONG 072 37 51)									
OCT., 1973 03...	56	26	70	.3	1.1	.01	1.1	.16	.00
01178000 - MILL RIVER AT SPRINGFIELD, MASS. (LAT 42 05 39 LONG 072 34 03)									
OCT., 1973 03...	39	20	32	.4	.48	.01	.49	.05	.78
01183780 - THREEMILE BROOK NEAR AGAWAM, MASS (LAT 42 02 40 LONG 072 36 59)									
OCT., 1973 03...	25	28	31	.4	2.0	.00	2.0	.03	.29
01183810 - LONGMEADOW BROOK AT PONDSIDE RD NEAR LONGMEADOW, MASS (LAT 42 02 22 LONG 072 35 32)									
OCT., 1973 03...	27	17	20	.5	1.7	.00	1.7	--	--
01184277 - SCANTIC RIVER NEAR HAMPDEN MASS (LAT 42 02 54 LONG 072 27 16.01)									
OCT., 1973 17...	16	8.6	7.7	.3	.31	.00	.32	--	--

CHEMICAL ANALYSES OF SURFACE WATER IN CONNECTICUT RIVER BASIN, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974.--Continued

DATE	TOTAL NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	CARBON DIOXIDE (CO2) (MG/L)
01161240 - MILL BROOK NEAR WARWICK, MASS. (LAT 42 40 28 LONG 072 22 51)									
OCT., 1973 02...	--	--	14	3	1	19	5.7	15.5	9.6
01170510 - CONNECTICUT RIVER TRIBUTARY NEAR MONTAGUE, MASS. (LAT 42 33 10 LONG 072 32 59)									
OCT., 1973 02...	--	--	34	16	7	61	6.8	10.0	2.8
01170720 - MILL RIVER AT NORTH HADLEY, MASS (LAT 42 23 08 LONG 072 34 53)									
OCT., 1973 02...	--	--	101	56	32	190	7.2	15.5	3.0
01170950 - MILL RIVER AT HATFIELD, MASS (LAT 42 21 59 LONG 072 36 19)									
OCT., 1973 03...	1.0	.41	96	54	17	185	7.4	14.5	2.9
01171497 - MILL RIVER TRIBUTARY AT NORTHAMPTON, MASS. (LAT 42 19 16 LONG 072 39 15.01)									
OCT., 1973 03...	1.8	.26	197	88	35	365	7.7	16.0	2.1
01177120 - SCHOOLHOUSE BROOK AT WEST SPRINGFIELD, MASS (LAT 42 08 50 LONG 072 37 51)									
OCT., 1973 03...	1.3	.16	215	120	60	411	7.8	16.0	1.7
01178000 - MILL RIVER AT SPRINGFIELD, MASS. (LAT 42 05 39 LONG 072 34 03)									
OCT., 1973 03...	1.3	.83	128	72	34	240	7.1	18.5	6.0
01183780 - THREEMILE BROOK NEAR AGAWAM, MASS (LAT 42 02 40 LONG 072 36 59)									
OCT., 1973 03...	2.3	.32	123	63	38	239	7.4	18.0	1.9
01183810 - LONGMEADOW BROOK AT PONDSIDE RD NEAR LONGMEADOW, MASS (LAT 42 02 22 LONG 072 35 32)									
OCT., 1973 03...	--	--	95	54	27	183	7.2	17.0	3.3
01184277 - SCANTIC RIVER NEAR HAMPDEN MASS (LAT 42 02 54 LONG 072 27 16.01)									
OCT., 1973 17...	--	--	52	23	7	82	7.1	--	2.5

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

SPECIFIC CONDUCTANCE AND TEMPERATURE OF SURFACE WATER, WATER YEAR OCTORER 1973 TO SEPTEMBER 1974

STATION NUMBER	STATION NAME	LATITUDE	LONGITUDE	DATE	DISCHARGE (CFS)	SPECIFIC CONDUCT-ANCE (MICROMHOS)	TEMPER-ATURE (DEG C)
	WEWEANTIC RIVER BASIN						
01105905	SIPPICAN RIVER NEAR MARION, MASS.	41 44 05	070 46 30	7-17-74	10	68	22
	AUCOOT CREEK BASIN						
01105908	AUCOOT CREEK NEAR MARION, MASS.	41 41 05	070 46 25	7-17-74	.44	74	18
				8-19-74	.12	86	18
	MATTAPOISETT RIVER BASIN						
01105911	MATTAPOISETT RIVER AT ROUNSEVILLE ROAD NEAR ROCHESTER, MASS.	41 44 10	070 51 45	7-17-74	3.2	80	23
				8-19-74	1.3	80	21
01105914	MATTAPOISETT RIVER AT TINKHAM LANE, NEAR MATTAPOISETT, MASS.	41 41 05	070 50 30	7-17-74	4.3	83	20
				8-19-74	5.9	88	19
01105917	MATTAPOISETT RIVER NEAR MATTAPOISETT, MASS.	41 39 45	070 50 20	8-19-74	.52	80	23
	ACUSHNET RIVER BASIN						
01105924	ACUSHNET RIVER AT LEONARD STREET NEAR ACUSHNET, MASS.	41 43 25	070 53 50	7-17-74	3.1	73	25
				8-19-74	.24	69	21
01105926	ACUSHNET RIVER AT ACUSHNET, MASS.	41 41 45	070 54 52	7-17-74	4.2	160	27
				8-19-74	.55	106	27
	BUTTONWOOD BROOK BASIN						
01105928	BUTTONWOOD BROOK NEAR SOUTH DARTMOUTH, MASS.	41 36 15	070 57 20	7-17-74	.45	250	22
	SLOCUMS RIVER BASIN						
01105933	PASKAMANSET RIVER NEAR SOUTH DARTMOUTH, MASS.	41 35 07	070 59 25	7-17-74	7.9	150	23
				8-19-74	1.4	185	22
01105935	DESTRUCTION BROOK NEAR SOUTH DARTMOUTH, MASS.	41 34 20	071 00 50	7-17-74	.94	63	25
				8-19-74	.30	66	27
	EAST BRANCH WESTPORT RIVER BASIN						
01105937	SHINGLE ISLAND RIVER NEAR NORTH DARTMOUTH, MASS.	41 40 50	071 01 05	7-18-74	2.1	55	18
				8-19-74	.04		
01105943	SHINGLE ISLAND RIVER AT HIXVILLE ROAD, NEAR NORTH DARTMOUTH, MASS.	41 40 10	071 01 32	7-18-71	6.5	71	19
				8-19-74	3.3	70	22
01105947	BREAD AND CHEESE BROOK AT HEAD OF WESTPORT, MASS.	41 38 00	071 03 46	7-18-74	1.7	128	18
				8-19-74	.18	136	22
01105950	KIRBY BROOK NEAR HEAD OF WESTPORT, MASS.	41 36 02	071 04 25	7-17-74	.05	132	20
	WEST BRANCH WESTPORT RIVER BASIN						
01106005	ANGELINE BROOK NEAR WESTPORT POINT, MASS.	41 33 05	071 06 20	7-17-74	.32	136	18
	LEE RIVER BASIN						
01109130	LEWIN BROOK AT SWANSEA, MASS.	41 44 55	071 11 45	7-18-74	.14	102	19
				8-19-74	.05		

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

SPECIFIC CONDUCTANCE AND TEMPERATURE OF SURFACE WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

STATION NUMBER	STATION NAME	LATITUDE	LONGITUDE	DATE	DISCHARGE (CFS)	SPECIFIC CONDUCT-ANCE (MICROMHOS)	TEMPER-ATURE (DEG C)
	PALMER RIVER BASIN						
01109135	COLE RIVER NEAR SWANSEA, MASS.	41 46 30	071 12 00	7-18-74	.89	58	20
01109195	EAST BRANCH PALMER RIVER AT REHOBOTH, MASS.	41 50 30	071 14 35	7-18-74 8-20-74	1.3 2.2	84 60	18 20
01109215	PALMER RIVER NEAR REHOBOTH, MASS.	41 49 50	071 16 55	7-18-74 8-20-74	5.0 4.1	106 85	19 19
01109225	ROCKY RUN NEAR REHOBOTH, MASS.	41 46 52	071 15 05	7-18-74 8-20-74	1.4 .02	77 104	22 20
	RUNNINS RIVER BASIN						
01109270	RUNNINS RIVER AT SEEKONK, MASS.	41 49 25	071 20 00	7-17-74 8-20-74	.42 .18	180 225	20 17
	PAWCATUCK RIVER BASIN						
01117450	PASQUISET BROOK AT KENYON, R.I.	41 26 38	071 37 39	9-19-74	1.7	88	19
01117465	BEAVER RIVER NEAR WYOMING, R.I.	41 31 31	071 38 23	9-18-74	2.5	53	13.5
	BEAVER RIVER AT PUNCHBOWL TRAIL NEAR WYOMING, R.I.	41 30 42	071 38 31	9-18-74	2.6		14.5
01117468	BEAVER RIVER NEAR USQUEPAUG, R.I.	41 29 33	071 37 43	9-18-74	3.9	50	14.5
	BEAVER RIVER NEAR BEAVER RIVER ROAD, USQUEPAUG, R.I.	41 28 45	071 37 26	9-18-74	4.4	53	16
01117470	BEAVER RIVER NEAR SHANNOCK, R.I.	41 27 51	071 37 42	9-19-74	7.7	68	15
01117472	BEAVER RIVER AT KENYON, R.I.	41 27 09	071 37 42	9-19-74	5.9	68	15.5

CHEMICAL ANALYSES OF GROUND WATER IN MASSACHUSETTS, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

LOCAL IDENTI-FIER	CITY OR TOWN	LATI-TUDE	LONGI-TUDE	SEQ. NO.	SITE	DATE OF SAMPLE	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAGNE-SIUM (MG) (MG/L)
AFW 9	AGAWAM	42 03 40	072 37 27	01	GW	73-12-11	7.3	370	50	11	3.0
AFW 18	AGAWAM	42 02 36	072 40 58	01	GW	73-12-12	16	1000	50	34	20
ASS 1	BELCHERTOWN	42 21 02	072 25 54	01	SP	73-11-30	9.6	30	10	2.7	.5
BAS 2	BERNARDSTON	42 39 45	072 30 21	01	SP	73-11-28	7.6	10	10	7.9	1.8
CMW 6	CHICOPEE	42 08 51	072 36 55	01	GW	73-12-07	20	1300	120	300	35
ELW 43	E. LONGMEADOW	42 03 45	072 31 03	01	GW	73-12-11	23	20	10	68	20
ELW 66	E. LONGMEADOW	42 04 56	072 29 20	01	GW	73-12-11	17	50	0	36	5.5
GKW 162	GRANBY	42 14 15	072 31 35	01	GW	73-12-07	12	80	40	36	14
GKW 188	GRANBY	42 16 15	072 28 22	01	GW	73-11-30	11	130	30	14	2.8
GKW 195	GRANBY	42 17 15	072 32 09	01	GW	73-11-30	17	40	70	86	10
HDW 12	HAMPDEN	42 03 44	072 25 34	01	GW	73-12-10	12	210	60	18	1.8
HDW 15	HAMPDEN	42 04 24	072 23 42	01	GW	73-12-10	11	180	40	26	3.5
HUW 29	HOLYOKE	42 11 52	072 36 43	01	GW	73-12-12	20	360	120	220	26
M4W 63	MONSON	42 03 41	072 21 02	01	GW	73-12-10	5.3	560	120	.5	.7
M5W 73	MONTAQUE	42 32 03	072 32 38	01	GW	73-11-29	8.9	20	10	20	1.8
M5W 75	MONTAQUE	42 32 41	072 33 11	02	GW	73-11-29	12	930	500	500	18
M5W 91	MONTAQUE	42 32 41	072 33 11	01	GW	73-11-29	7.4	110	20	16	4.0
M5W 92	MONTAQUE	42 31 39	072 31 58	01	GW	73-11-29	9.8	40	0	13	2.0
NRW 86	NORTHAMPTON	42 20 12	072 44 18	01	GW	73-11-29	15	120	20	8.9	2.6
N2W 66	NORTHFIELD	42 41 30	072 26 35	01	GW	73-11-28	8.9	50	10	2.5	.6
N2W 73	NORTHFIELD	42 31 06	072 27 52	01	GW	73-11-28	11	230	50	31	8.8
SOW 11	SHUTESBURY	42 26 58	072 25 39	01	GW	73-11-30	10	330	10	10	1.4
SUW 1	SOUTH HADLEY	42 17 12	072 33 31	01	GW	73-11-30	10	110	10	5.5	1.3
SUW 15	SOUTH HADLEY	42 13 06	072 35 44	01	GW	73-12-07	22	1400	70	260	46
SUW 22	SOUTH HADLEY	42 17 16	072 36 07	01	GW	73-12-07	11	80	20	27	4.3
SUW 43	SOUTH HADLEY	42 16 55	072 35 56	01	GW	73-11-30	10	20	10	17	4.6
S6W 63	SUNDERLAND	42 27 13	072 33 43	01	GW	73-11-28	13	50	20	52	19
TSW 58	TRURO	42 01 41	070 03 07	01	GW	74-01-25	10	20	0	3.8	3.5
TSW 73	TRURO	42 01 48	070 03 24	01	GW	74-01-25	8.8	140	80	3.8	3.2
WXW 4	WESTHAMPTON	42 17 09	072 46 32	01	GW	73-11-29	16	410	40	8.6	2.6
WXW 20	WESTHAMPTON	42 19 23	072 45 10	01	GW	73-11-29	13	60	10	10	2.5
XCW 166	W. SPRINGFIELD	42 09 17	072 39 00	01	GW	73-12-12	14	100	40	28	20
XHW 17	WHATELY	42 26 29	072 40 55	01	GW	73-11-29	14	140	30	24	2.5
XHW 25	WHATELY	42 26 15	072 38 17	01	GW	73-11-28	13	60	130	28	2.3
XJW 156	WILBRAHAM	42 06 14	072 27 11	01	GW	73-12-10	12	250	50	26	6.5
XJW 219	WILBRAHAM	42 07 38	072 24 45	01	GW	73-12-10	13	170	10	33	4.9
XKW 32	WILLIAMSBURG	42 24 13	072 43 30	01	GW	73-11-29	15	70	20	29	3.5

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

CHEMICAL ANALYSES OF GROUND WATER IN MASSACHUSETTS, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974.--Continued

LOCAL IDENTI- FIER	CITY OR TOWN	DATE OF SAMPLE	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED POTAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LINITY AS CACO3 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLOR- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)
AFW 9	AGAWAM	73-12-11	130	.6	171	3	145	160	12	.1	.00
AFW 18	AGAWAM	73-12-12	21	1.1	141	0	116	82	1.3	.1	.00
ASS 1	BELCHERTOWN	73-11-30	1.9	.5	9	0	7	5.4	2.3	.2	--
BAS 2	BERNARDSTON	73-11-28	4.9	.6	13	0	11	12	12	.2	.67
CMW 6	CHICOPEE	73-12-07	160	5.0	107	0	88	980	90	.7	.00
ELW 43	E. LONGMEADOW	73-12-11	13	.6	82	0	67	190	2.8	.1	.42
ELW 66	E. LONGMEADOW	73-12-11	7.7	.5	67	0	55	16	32	.0	2.6
GKW 162	GRANBY	73-12-07	14	.9	146	0	120	28	12	.2	1.5
GKW 188	GRANBY	73-11-30	6.7	2.9	15	0	12	13	19	.3	4.4
GKW 195	GRANBY	73-11-30	13	.3	146	0	120	100	44	.2	.01
HDW 12	HAMPDEN	73-12-10	4.3	.4	45	0	37	19	2.9	.4	.27
HDW 15	HAMPDEN	73-12-10	5.0	4.4	83	0	68	18	1.8	.7	.00
HUW 29	HOLYOKE	73-12-12	50	1.2	122	0	100	560	51	.1	.00
M4W 63	MONSON	73-12-10	.9	.6	1	0	1	4.1	1.4	.1	.03
MSW 73	MONTAQUE	73-11-29	3.3	.5	60	0	49	12	.8	.3	.05
MSW 75	MONTAQUE	73-11-29	33	3.4	126	0	103	1300	1.8	.7	.01
MSW 91	MONTAQUE	73-11-29	4.3	2.3	13	0	11	34	5.4	.3	3.7
MSW 92	MONTAQUE	73-11-29	3.4	.6	30	0	25	10	12	.2	.42
NRW 86	NORTHAMPTON	73-11-29	2.5	1.8	43	0	35	5.3	1.5	.2	.01
N2W 66	NORTHFIELD	73-11-28	1.6	.6	4	0	3	6.7	1.3	.3	.01
N2W 73	NORTHFIELD	73-11-28	13	3.0	52	0	43	45	22	1.4	3.8
SOW 11	SHUTESBURY	73-11-30	4.3	.9	44	0	36	4.6	3.0	.8	.01
SUW 1	SOUTH HADLEY	73-11-30	7.1	.5	11	0	9	9.5	9.3	.3	.85
SUW 15	SOUTH HADLEY	73-12-07	94	1.5	129	0	106	800	110	.4	.03
SUW 22	SOUTH HADLEY	73-12-07	3.5	.3	65	0	53	25	3.4	.1	1.4
SUW 43	SOUTH HADLEY	73-11-30	9.3	.5	49	0	40	21	8.6	.3	.53
S6W 63	SUNDERLAND	73-11-28	14	2.0	116	0	95	140	3.3	.3	.01
TSW 58	TRURO	74-01-25	23	1.1	11	0	9	8.1	40	.1	--
TSW 73	TRURO	74-01-25	21	1.2	15	0	12	6.2	36	.1	--
WXW 4	WESTHAMPTON	73-11-29	3.6	1.8	45	0	37	2.8	1.2	.3	.01
WXW 20	WESTHAMPTON	73-11-29	2.7	.7	31	0	25	10	2.7	.3	.91
XCW 166	W. SPRINGFIELD	73-12-12	8.8	.9	160	0	131	14	14	.3	.07
XMW 17	WHATELY	73-11-29	3.0	.2	63	0	52	12	6.6	.3	1.4
XMW 25	WHATELY	73-11-28	4.3	.8	91	0	75	12	1.4	.3	--
XJW 156	WILBRAHAM	73-12-10	13	1.3	33	0	27	25	31	.1	5.4
XJW 219	WILBRAHAM	73-12-10	6.7	1.7	73	0	60	16	28	.3	.25
XKW 32	WILLIAMSBURG	73-11-29	5.4	1.4	71	0	58	20	14	.3	1.7

CHEMICAL ANALYSES OF GROUND WATER IN MASSACHUSETTS, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974.--Continued

LOCAL IDENTIFIER		CITY OR TOWN	DATE OF SAMPLE	TOTAL NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	CARBON DIOXIDE (CO2) (MG/L)
AFW	9	AGAWAM	73-12-11	.00	.00	411	40	0	701	8.6	9.5	.7
AFW	18	AGAWAM	73-12-12	.01	.01	245	170	52	393	7.9	11.5	2.8
ASS	1	BELCHERTOWN	73-11-30	.00	.00	28	9	1	35	6.8	8.5	2.3
BAS	2	BERNARDSTON	73-11-28	.00	.68	53	27	16	87	6.9	8.0	2.6
CMW	6	CHICOPEE	73-12-07	.01	.01	1640	890	810	2060	7.9	13.5	2.2
ELW	43	E. LONGMEADOW	73-12-11	.01	.43	358	250	190	533	7.8	13.5	2.1
ELW	66	E. LONGMEADOW	73-12-11	.01	2.6	148	110	58	276	7.8	14.0	1.7
GKW	162	GRANBY	73-12-07	.01	1.5	189	150	28	333	8.0	12.0	2.3
GKW	188	GRANBY	73-11-30	.00	4.4	77	46	34	163	7.0	--	2.4
GKW	195	GRANBY	73-11-30	.00	.01	342	260	140	566	8.0	--	2.3
HDW	12	HAMPDEN	73-12-10	.00	.27	81	52	15	136	7.5	11.5	2.3
HDW	15	HAMPDEN	73-12-10	.00	.00	111	79	11	187	7.8	11.0	2.1
HUW	29	HOLYOKE	73-12-12	.01	.01	988	660	560	1370	7.8	13.5	3.1
MAW	63	MONSON	73-12-10	.00	.03	14	4	3	23	5.4	11.5	6.4
MSW	73	MONTAQUE	73-11-29	.00	.05	77	57	8	134	7.5	--	3.0
MSW	75	MONTAQUE	73-11-29	.00	.01	1930	1300	1200	2160	7.9	--	2.5
MSW	91	MONTAQUE	73-11-29	.02	3.7	80	56	46	166	7.0	--	2.1
MSW	92	MONTAQUE	73-11-29	.00	.42	66	41	16	114	7.4	--	1.9
NRW	86	NORTHAMPTON	73-11-29	.00	.01	59	33	0	88	7.4	--	2.7
N2W	66	NORTHFIELD	73-11-28	.00	.01	24	9	5	34	6.6	--	1.6
N2W	73	NORTHFIELD	73-11-28	.00	3.8	161	110	71	293	7.6	--	2.1
SOW	11	SHUTESBURY	73-11-30	.00	.01	57	31	0	90	7.5	--	2.2
SUW	1	SOUTH HADLEY	73-11-30	.00	.85	49	19	10	87	6.8	8.5	2.8
SUW	15	SOUTH HADLEY	73-12-07	.01	.04	1400	840	730	1830	7.8	13.5	3.3
SUW	22	SOUTH HADLEY	73-12-07	.01	1.4	107	85	32	187	7.6	9.5	2.6
SUW	43	SOUTH HADLEY	73-11-30	.00	.53	95	61	21	162	7.6	9.5	2.0
S6W	63	SUNDERLAND	73-11-28	.00	.01	301	210	110	484	8.1	--	1.5
TSW	58	TRURO	74-01-25	--	--	96	24	15	171	6.6	14.0	4.4
TSW	73	TRURO	74-01-25	--	--	89	23	10	161	7.0	13.0	2.4
WXW	4	WESTHAMPTON	73-11-29	.00	.01	59	32	0	85	7.4	--	2.9
WXW	20	WESTHAMPTON	73-11-29	.01	.92	57	35	10	92	7.3	--	2.5
XCW	166	W. SPRINGFIELD	73-12-12	.01	.08	179	150	21	318	8.0	11.5	2.6
XHW	17	WHATELY	73-11-29	.01	1.4	94	70	19	162	7.7	--	2.0
XHW	25	WHATELY	73-11-28	.00	.00	107	79	5	179	8.0	--	1.5
XJW	156	WILBRAHAM	73-12-10	.01	5.4	131	92	65	268	6.9	11.0	6.6
XJW	219	WILBRAHAM	73-12-10	.01	.26	140	100	43	255	7.5	11.5	3.7
XKW	32	WILLIAMSBURG	73-11-29	.01	1.7	124	87	29	216	7.8	--	1.8

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

CHEMICAL ANALYSES OF GROUND WATER IN RHODE ISLAND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

LOCAL IDENTIFIER	CITY OR TOWN	LATITUDE	LONGITUDE	SEQ. NO.	SITE	TOTAL DEPTH OF WELL (FT)	DATE OF SAMPLE	FLOW RATE (GPM)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	ALKALINITY AS CACO3 (MG/L)
CHW 376	CHARLESTOWN	41 26 23	071 38 13	01	GW	59	74-05-14	--	70	30	3
EXW 422	EXETER	41 34 10	071 43 11	01	GW	44	74-07-17	60	40	0	3
EXW 423	EXETER	41 33 49	071 43 30	01	GW	96	74-07-19	5.0	1600	50	9
					GW	96*	74-07-22	17	100	40	3
EXW 424	EXETER	41 34 29	071 43 07	01	GW	56	74-07-26	3.0	260	60	7
HOW 424	HOPKINTON	41 32 56	071 42 52	01	GW	41	74-07-15	7.0	250	40	4
RIW 347	RICHMOND	41 27 09	071 41 37	01	GW	71	74-07-16	15	50	20	20
RIW 348	RICHMOND	41 28 34	071 42 24	01	GW	62	74-07-16	15	120	20	7
SNW 1127	SOUTH KINGSTOWN	41 29 26	071 32 41	01	GW	94	74-04-30	40	130	20	38
SNW 1128	SOUTH KINGSTOWN	41 29 19	071 32 47	01	GW	157	74-05-30	2.0	1500	250	37
SNW 1130	SOUTH KINGSTOWN	41 29 27	071 32 38	01	GW	104	74-05-30	2.0	200	140	31
SNW 1131	SOUTH KINGSTOWN	41 29 22	071 32 52	01	GW	125	74-05-15	30	180	380	28
SNW 1132	SOUTH KINGSTOWN	41 29 22	071 32 52	02	GW	18	74-05-15	40	10	40	5
SNW 1133	SOUTH KINGSTOWN	41 29 26	071 32 41	02	GW	95	74-05-23	625	0	20	25
SNW 1137	SOUTH KINGSTOWN	41 29 22	071 32 52	03	GW	56	74-06-12	100	50	30	7
SNW 1141	SOUTH KINGSTOWN	41 29 19	071 32 53	01	GW	142	74-06-14	40	140	390	29

* Water sample taken at depth of 52 ft.

LOCAL IDENTIFIER	CITY OR TOWN	DATE OF SAMPLE	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)
CHW 376	CHARLESTOWN	74-05-14	37	1.7	.01	1.7	1.7	.00	190
EXW 422	EXETER	74-07-17	18	.05	.01	.06	.07	.01	69
EXW 423	EXETER	74-07-19	3.4	.03	.01	.04	.09	.05	44
		74-07-22	2.6	.02	.01	.03	.04	.01	33
EXW 424	EXETER	74-07-26	30	.08	.01	.09	.14	.05	118
HOW 424	HOPKINTON	74-07-15	3.7	.27	.01	.28	.33	.05	34
RIW 347	RICHMOND	74-07-16	4.1	.03	.01	.04	.09	.05	58
RIW 348	RICHMOND	74-07-16	4.3	.06	.01	.07	.07	.00	45
SNW 1127	SOUTH KINGSTOWN	74-04-30	9.0	1.5	.01	1.5	1.5	.02	141
SNW 1128	SOUTH KINGSTOWN	74-05-30	16	.98	.02	1.0	1.1	.06	187
SNW 1130	SOUTH KINGSTOWN	74-05-30	8.5	1.3	.07	1.4	1.6	.24	117
SNW 1131	SOUTH KINGSTOWN	74-05-15	5.2	.00	.01	.01	.06	.05	90
SNW 1132	SOUTH KINGSTOWN	74-05-15	14	3.7	.01	3.7	3.7	.00	170
SNW 1133	SOUTH KINGSTOWN	74-05-23	17	1.8	.01	1.8	1.9	.05	152
SNW 1137	SOUTH KINGSTOWN	74-06-12	12	3.2	.01	3.2	3.3	.08	180
SNW 1141	SOUTH KINGSTOWN	74-06-14	7.5	.03	.01	.04	.10	.06	88

LOCAL IDENTIFIER	CITY OR TOWN	DATE OF SAMPLE	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
CHW 376	CHARLESTOWN	74-05-14	5.0	11.0	9.4	1.9
EXW 422	EXETER	74-07-17	5.6	9.0	11.7	2.0
EXW 423	EXETER	74-07-19	6.1	11.5	.8	<.1
		74-07-22	5.7	9.5	5.5	<.1
EXW 424	EXETER	74-07-26	6.1	11.0	7.2	10
HOW 424	HOPKINTON	74-07-15	5.6	10.5	7.5	--
RIW 347	RICHMOND	74-07-16	6.4	10.0	4.0	<.1
RIW 348	RICHMOND	74-07-16	5.7	10.5	4.5	<.1
SNW 1127	SOUTH KINGSTOWN	74-04-30	6.6	10.2	2.4	1.5
SNW 1128	SOUTH KINGSTOWN	74-05-30	6.6	10.2	1.1	--
SNW 1130	SOUTH KINGSTOWN	74-05-30	6.7	11.0	3.1	--
SNW 1131	SOUTH KINGSTOWN	74-05-15	6.3	11.0	2.0	5.7
SNW 1132	SOUTH KINGSTOWN	74-05-15	5.5	9.0	10.5	1.8
SNW 1133	SOUTH KINGSTOWN	74-05-23	6.1	10.5	3.1	.6
SNW 1137	SOUTH KINGSTOWN	74-06-12	5.5	9.5	7.7	1.6
SNW 1141	SOUTH KINGSTOWN	74-06-14	6.7	10.5	.3	2.1

CHEMICAL ANALYSES OF PRECIPITATION

MERRIMACK RIVER BASIN

ASHBY, MASS.

LOCATION.--Lat 42°40'24", long 71°46'33", Middlesex County, at Ashby State Forest Headquarters near Ashby, Mass.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)
OCT. 29...	.0	.0	.1	.5	.1	2	0	2	1.0	1.2	.1

DATE	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	CARBON DIOXIDE (CO2) (MG/L)
OCT. 29...	.09	.00	.09	.11	4	0	0	14	4.7	64

CONNECTICUT RIVER BASIN

AMHERST, MASS.

LOCATION.--Lat 42°22'11", long 72°31'06", Hampshire County, on the grounds of Amherst College, at Amherst, Mass.

EQUIPMENT.--The sample collector is a polyethelene funnel approximately 8 inches in diameter, which drains into a polyethelene container through an air lock created by looped tygon tubing. The opening for the collector is approximately 10 feet above ground level.

PERIOD OF RECORD.--June 1972 to current year.

REMARKS.--Inches of precipitation measured at the point of sampling for the reported period.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	ACCU-MULATED RAIN-FALL (IN)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)
OCT. 01-31	1.9	.8	.2	.3	.2	0	0	0	1.9	1.7
NOV. 01-30	2.2	.4	.1	.1	.2	0	0	0	2.4	1.4
DEC. 01-31	8.4	.0	.0	.0	.0	0	0	0	.0	.1

DATE	DIS-SOLVED FLUO-RIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	CARBON DIOXIDE (CO2) (MG/L)
OCT. 01-31	.1	.47	.00	.47	--	3	3	36	4.1	.0
NOV. 01-30	.2	.55	.00	.55	.39	1	1	42	4.0	.0
DEC. 01-31	.1	.02	.01	.03	--	0	0	5	4.9	.0

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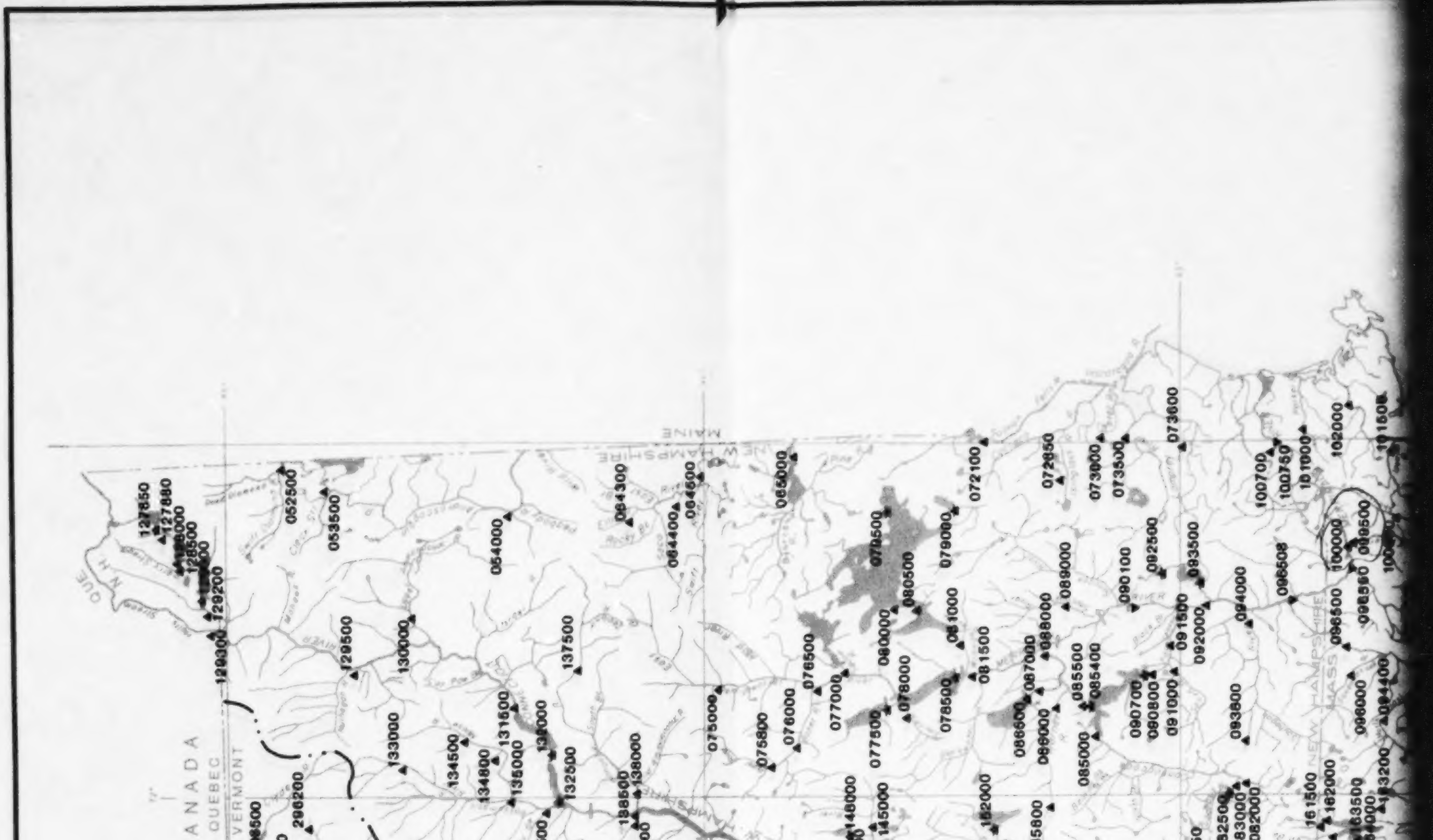

CANADA
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N.H.
MAINE
NEW HAMPSHIRE
VERMONT
NEW HAMPSHIRE
NEW YORK
VERMONT
MASS
NEW HAMPSHIRE
MASS
PART 4
PART 1
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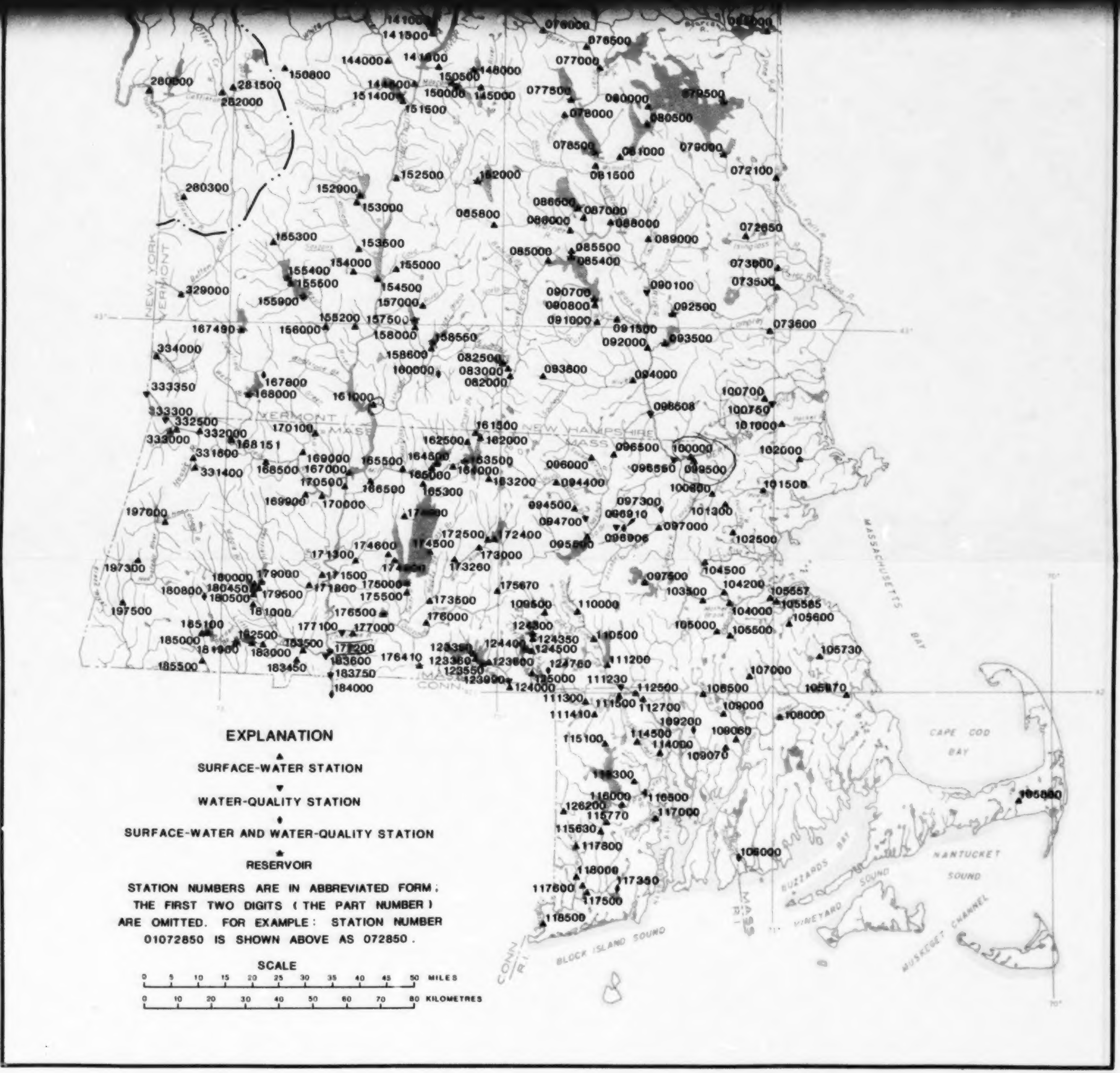
085800


EXPLANATION
▲ SURFACE-WATER STATION
▼ WATER-QUALITY STATION
♦ SURFACE-WATER AND WATER-QUALITY STATION
★ RESERVOIR
STATION NUMBERS ARE IN ABBREVIATED FORM; THE FIRST TWO DIGITS (THE PART NUMBER) ARE OMITTED. FOR EXAMPLE: STATION NUMBER 01072850 IS SHOWN ABOVE AS 072850.
SCALE
0 5 10 15 20 25 30 35 40 45 50 MILES
0 10 20 30 40 50 60 70 80 KILOMETRES
NEW YORK
VERMONT
NEW HAMPSHIRE
MASS
CONN
R.I.
MASSACHUSETTS BAY
CAPE COD BAY
BUZZARDS BAY
VINEYARD SOUND
NANTUCKET SOUND
MUSKEGET CHANNEL
BLOCK ISLAND SOUND
43°
42°
71°
70°
141000
141500
144000
141800
148000
150500
148000
151400
150000
145000
151500
150800
281500
282000
280000
076000
076500
077000
077500
080000
079500
078000
080500
078500
081000
079000
081500
072100
152500
162000
152900
153000
086500
087000
085800
086000
088000
089000
072650
280300
155300
153500
154000
155000
155400
155500
085000
085500
085400
073800
073500
329000
155900
154500
157000
090700
090800
090100
092500
155200
157500
091000
091500
073600
167490
156000
158000
158550
092000
093500
334000
158600
082500
160000
083000
082000
093800
094000
333350
167800
168000
161000
100700
100750
098608
333300
332500
332000
170100
161500
101000
333000
168151
162500
162000
331600
169000
164500
163500
096500
100000
102000
188500
167000
165500
165000
164000
096000
098550
099500
331400
170500
166500
165300
163200
094400
100800
101500
169900
170000
197000
174800
094500
097300
096910
101300
094700
097000
174600
174500
172500
172400
095500
098906
102500
171300
173000
197300
174600
173260
180000
179000
171500
097500
104500
180800
180450
171800
175000
175670
104200
105557
180500
179500
175500
173500
103500
105585
197500
181000
176500
109500
110000
104000
105600
176000
185100
177100
177000
124300
105000
185000
182500
183500
177200
123360
124400
124350
110500
105500
105730
181900
183000
183600
176410
123360
123600
124500
185500
183450
183750
123550
124760
111200
107000
105870
123900
125000
111230
112500
108500
124000
111300
111500
112700
108000
184000
111410
109000
109200
109060
108000
115100
114500
114000
109070
118300
116000
116500
126200
115770
117000
115630
117800
106000
118000
117350
117600
117500
118500
105880

B PLATE 1. LOCATION OF SURFACE-WATER STATIONS AND WATER-QUALITY STATIONS